



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHPO13150



Certified by ISO 9001-2015,  
ISO : 14001-2015

Recognised as Green Educational  
Campus

Hon. Shri. Vilasrao V. Lande  
President

Hon. Shri. Sudhir V. Mungase  
Secretary

Hon. Shri. Ajit D. Gavhane  
Treasurer

Dr. Kishor S. Jain  
Principal

## 1.1.1

The Institution ensures effective curriculum delivery through a well-planned and documented process.



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# 1. SPPU affiliation letters

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी  
Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.  
Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)  
Phone : (020) 20280280, 7447763086, 9422322070

 : [www.rjspmpharmacy.com](http://www.rjspmpharmacy.com)

Email: [rjspmcp123@gmail.com](mailto:rjspmcp123@gmail.com)

Committed for Excellence in Education

     /rjspmpharmacy

# सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

दूरध्वनी क्रमांक :  
०२०-२५६२११८८  
२५६२११९७



शैक्षणिक विभाग  
(संलग्नता कक्ष)

गणेशखिंड, पुणे-४११००७.

टेलिग्राफ : 'युनिपुणे'

फॅक्स : ०२०-२५६९१२३३

वेबसाइट : www.unipune.ac.in

ई-मेल : affiliation@pun.unipune.ac.in



220700324

संदर्भ क्र.:CA/१४१९

दि.:२६/०८/२०२२

प्रति,

मा. प्राचार्य,

राजमाता जिजाऊ शिक्षण प्रसारक मंडळ कॉलेज ऑफ फार्मसी

पत्ता: गट न १०१-१०२, डुडुळ गाव पो आळंदी ता.:

हवेली(महानगर पालिका हद्द वगळून) जि: पुणे पिनकोड:

412105

[CPHP013150]

**विषय:- शैक्षणिक वर्ष २०२२-२०२३ या वर्षाकरिता संलग्निकरणाचे नूतनीकरण / नैसर्गिकवाढीबाबत**

महोदय,

वरील विषयासंदर्भात विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०२२-२०२३ करिता खालील रकान्यात नमूद केलेल्या अभ्यासक्रमांच्या संलग्निकरणाच्या नूतनीकरणास / नैसर्गिकवाढीस महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम २०१६ तसेच अखिल भारतीय तंत्रशिक्षण परिषद (AICTE)/ राष्ट्रीय शिक्षक शिक्षण परिषद (NCTE)/ बार कौन्सिल ऑफ इंडिया (BCI)/ फार्मसी कौन्सिल ऑफ इंडिया (PCI)/ कौन्सिल ऑफ आर्किटेक्चर (COA)/ विद्यापीठ अनुदान आयोग/संबंधित शिखर संस्था/परिषद/नियामक मंडळ इ.तसेच केंद्र शासन महाराष्ट्र शासन आणि सावित्रीबाई फुले पुणे विद्यापीठ यांचेकडून वेळोवेळी विहित करण्यात आलेल्या आणि येणा-या नियम/आदेश/मार्गदर्शक तत्वे/परिनियम/अध्यादेश इ.तरतूदीनुसार तसेच संबंधित अभ्यासक्रम व प्रवेश क्षमता मान्यतेच्या अधीन राहून तसेच स्वयं मूल्यमापन अहवालातील सोबत जोडलेल्या यादीतील अटी व शर्तीची पूर्तता (लागू असल्यास) विद्यापीठाचे पत्र निर्गमित झाल्याच्या दिनांकापासून सहा महिन्यांच्या आत पूर्ण करण्याच्या अटीवर परवानगी देण्यात येत आहे.

अनु.क्र.	अभ्यासक्रमाचा तपशील	विद्यार्थी संख्या	वर्ष व तुकडी	संलग्निकरणाचा प्रकार
1	बी.फार्म.	60	वर्ष पहिले ते चौथे- Div No.1,	नूतनीकरण

**अटी व शर्तीची यादी**

अनु.क्र.	अटी व शर्ती
१	SAR Not accepted as no teacher is reflected under Course wise Teacher Details (6) 1. Unfilled sanctioned teachers posts be filled as soon as possible or if filled, same be uploaded on web portal. 2. Institute should apply to NAAC/NBA for accreditation as soon as possible.

स. द. डावखर  
उपकुलसचिव



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Principal

## 2. AICTE approval letters

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी  
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**APPROVAL PROCESS 2022-23**

**Extension of Approval (EoA)**

F.No. Western/1-10974313999/2022/EOA

Date: 03-Jul-2022

To,

The Secretary,  
Tech. & Higher Education Deptt.  
Govt. of Maharashtra, Mantralaya,  
Annexe Building, Mumbai-400032

**Sub: Extension of Approval for the Academic Year 2022-23**

Ref: Application of the Institution for Extension of Approval for the Academic Year 2022-23

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2022 Notified on 4th February, 2022 and amended on 24th February 2022 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

<b>Permanent Id</b>	1-8078541	<b>Application Id</b>	1-10974313999
<b>Name of the Institution</b>	RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S COLLEGE OF PHARMACY	<b>Name of the Society/Trust</b>	RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL
<b>Institution Address</b>	R.J.S.P.M'S COLLEGE OF PHARMACY, DUDULGAON, MOSHI-ALANDI ROAD, TAL- HAWELI, PUNE-412105, PUNE, PUNE, Maharashtra, 412105	<b>Society/Trust Address</b>	R.J.S.P.M'S COLLEGE OF PHARMACY, AT DUDULGAON, GAT NO. 101-102, DUDULGAON, PUNE, Maharashtra, 412105
<b>Institution Type</b>	Private-Self Financing	<b>Region</b>	Western
<b>Year of Establishment</b>	2007		

**To conduct following Courses with the Intake indicated below for the Academic Year 2022-23**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2021-22	Intake Approved for 2022-23	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	PHARMACY	PHARMACY	University of Pune, Pune	60	@	NA	NA

@ : The Intake and Course for the AY 2022 - 23 shall be as per PCI / CoA respectively.

**It is mandatory to comply with all the essential requirements as given in APH 2022-23 (Appendix 6)**

### **Important Instructions**

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC (NCL)/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.
2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2022-23 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE beginning with the Academic Year 2022-23
3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as Approval Process Handbook and provisions made in AICTE Regulation notified from time to time.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

**Pharmacy Institute:** In compliance with the order dated 05.03.2020 passed by the Hon'ble Supreme Court of India in Transferred Petitions (CIVIL) No 87-101 of 2014, for the existing institutions offering courses in Pharmacy Programme, approval of Pharmacy Council of India (PCI) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per the respective regulatory body (PCI).

In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by PCI, the approval of PCI shall prevail.

**Architecture Institute:** In compliance with the order dated 08.11.2019 passed by the Hon'ble Supreme Court of Indian CA No.364/ 2005, for the existing Institutions offering Courses in Architecture Programme, approval by the Council of Architecture (CoA) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per respective regulatory body (CoA). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by CoA, the approval of CoA shall prevail.

**Deemed to be University:** Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.

**Prof.Rajive Kumar  
Member Secretary, AICTE**

Copy to:

1. **The Director Of Technical Education\*\*, Maharashtra**
2. **The Registrar\*\*,  
University Of Pune, Pune**
3. **The Principal / Director,  
RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S COLLEGE OF PHARMACY  
R.J.S.P.M'S College Of Pharmacy, Dudulgaon, Moshi-Alandi Road, Tal- Haweli, Pune-412105,  
Pune,Pune,  
Maharashtra,412105**
4. **The Secretary / Chairman,  
R.J.S.P.M'S COLLEGE OF PHARMACY, AT DUDULGAON, GAT NO. 101-102  
DUDULGAON,PUNE  
Maharashtra,412105**

5. **The Regional Officer,**  
All India Council for Technical Education  
Industrial Assurance Building  
2nd Floor, Nariman Road  
Mumbai - 400 020, Maharashtra

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

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\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

*This is a computer generated Statement. No signature Required*





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Principal

## 3. PCI approval letters



# PHARMACY COUNCIL OF INDIA

A Statutory body under Ministry of Health and Family Welfare  
Government of India

E - MAIL : [registrar@pci.nic.in](mailto:registrar@pci.nic.in)  
WEBSITE : [www.pci.nic.in](http://www.pci.nic.in)  
Telephone : 011-61299900  
011 - 61299901, 011 - 61299902  
011-61299903

NBCC Centre, 3rd Floor  
Plot No.2, Community Centre  
Maa Anandamai Marg  
Okhla Phase I  
NEW DELHI - 110020

## DECISION LETTER

Institute Name / Inst ID **Rajmata Jijau Shikshan Prasarak Mandals  
College Of Pharmacy Dudulgaon Post Alandi  
Tal Javeli Distt Pune Maharashtra / PCI-1711**

State **MAHARASHTRA**

District **PUNE**

Sub-District **Haveli**

Village/Town/City **DUDULGAON**

Pin Code **412105**



Sir / Madam

With reference to the subject cited above i am directed to convey the approval of PCI as per Following Details

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Approval Intake
B.Pharm	The Registrar Savitribai Phule Pune University Ganeshkhind Road Pune	B.Pharm B.Pharm course is already approved upto 2022-2023 academic session for 60 admissions.	Approved	2022-2023	60

Date **16th Jan 2023**

For  
(I/C) Registrar-cum-Secretary  
PCI

Copy to

- Registrar of the University
- Principal of the college
- Secretary/Chairman of the Trust/Society
- Guard File (PCI)

Note: Validity of the course details may be verified at [www.pci.nic.in](http://www.pci.nic.in)



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## 4. Course structure



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Gat No.101/102, A. Post-Dudulgaon, Post-Alandi, Tal-Haveli, Dist-Pune - 412 105

E-mail: rjspmcp123@gmail.com Web: www.rjspmpharmacy.com

Univ Id: PU/PN Pharm/286/2007 College Code:1081 DTE Code:6382



## SUMMARY OF COURSE STRUCTURE

A.Y. Year	Class	Course structure
2022-23	First Year B. Pharm	2019
	Second Year B. Pharm	2019
	Third Year B. Pharm	2019
	Final Year B. Pharm	2019
2021-22	First Year B. Pharm	2019
	Second Year B. Pharm	2019
	Third Year B. Pharm	2019
	Final Year B. Pharm	2018
2020-2021	First Year B. Pharm	2019
	Second Year B. Pharm	2019
	Third Year B. Pharm	2018
	Final Year B. Pharm	2015
2019-2020	First Year B. Pharm	2019
	Second Year B. Pharm	2018
	Third Year B. Pharm	2015
	Final Year B. Pharm	2015
2018-2019	First Year B. Pharm	2018
	Second Year B. Pharm	2015
	Third Year B. Pharm	2015
	Final Year B. Pharm	2015
2017-2018	First Year B. Pharm	2015
	Second Year B. Pharm	2015
	Third Year B. Pharm	2015
	Final Year B. Pharm	2013



  
PRINCIPAL  
Rajmata Jijau Shikshan Prasarak Mandal's  
COLLEGE OF PHARMACY  
Dudulgaon, Pune-412 105.



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## 5. PCI course regulation



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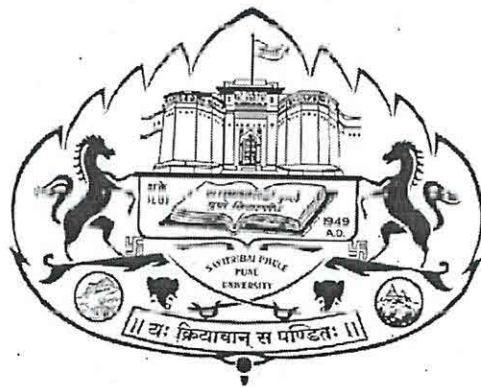
Hon. Shri. Ajit D. Gavhane  
Treasurer

Dr. Kishor S. Jain  
Principal

# Course Structure 2019 Pattern

**SAVITRIBAI PHULE PUNE UNIVERSITY**

**FACULTY OF SCIENCE AND TECHNOLOGY**



**RULES & SYLLABUS**

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE –  
2019 pattern (EFFECTIVE FROM ACADEMIC YEAR 2019-2020)**



## 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.
2. **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 semester shall consist of not less than 90 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.



  
**PRINCIPAL**  
Rajmata Jijau Shikshan Prasarak Mandal's  
**COLLEGE OF PHARMACY**  
Dudulgaon, Pune-412 105.



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 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.

**7.2. 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 Project over 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.



  
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**Table-I: Course of study for semester I**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3/45	1	4
BP102T	Pharmaceutical Analysis I – Theory	3/45	1	4
BP103T	Pharmaceutics I – Theory	3/45	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3/45	1	4
BP105T	Communication skills – Theory *	2/30	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2/30	-	D
BP107P	Human Anatomy and Physiology – Practical	4/60	-	?
BP108P	Pharmaceutical Analysis I – Practical	4/60	-	2
BP109P	Pharmaceutics I – Practical	4/60	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4/60	-	2
BP111P	Communication skills – Practical*	2/30	-	1
BP112RBP	Remedial Biology – Practical*	2/30	-	D
<b>Total</b>		<b>32/34<sup>S</sup>/36<sup>#</sup>/4 80/510<sup>S</sup>/540<sup>#</sup></b>	<b>4</b>	<b>27</b>

#Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB) course. However for Remedial biology and Mathematics no credits to be allotted only 50 % passing i.e D grade will be prerequisite.

\$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)



  
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**Table-II: Course of study for semester II**

Course Code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II - Theory	3/45	1	4
BP202T	Pharmaceutical Organic Chemistry I - Theory	3/45	1	4
BP203T	Biochemistry – Theory	3/45	1	4
BP204T	Pathophysiology – Theory	3/45	1	4
BP205T	Computer Applications in Pharmacy - Theory *	3/45	-	3
BP206T	Environmental sciences – Theory *	3/45	-	3
BP207P	Human Anatomy and Physiology II - Practical	4/60	-	2
BP208P	Pharmaceutical Organic Chemistry I - Practical	4/60	-	2
BP209P	Biochemistry – Practical	4/60	-	2
BP210P	Computer Applications. in Pharmacy - Practical*	4/60	-	1
<b>Total</b>		<b>32/480</b>	<b>4</b>	<b>29</b>

\*Non University Examination (NUE)

**Table-III: Course of study for semester III**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II - Theory	3/45	1	4
BP302T	Physical Pharmaceutics I – Theory	3/45	1	4
BP303T	Pharmaceutical Microbiology – Theory	3/45	1	4
BP304T	Pharmaceutical Engineering – Theory	3/45	1	4
BP305P	Pharmaceutical Organic Chemistry II - Practical	4/60	-	2
BP306P	Physical Pharmaceutics I – Practical	4/60	-	2
BP307P	Pharmaceutical Microbiology – Practical	4/60	-	2
BP 308P	Pharmaceutical Engineering –Practical	4/60	-	2
<b>Total</b>		<b>28/420</b>	<b>4</b>	<b>24</b>



Table-IV: Course of study for semester IV

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III- Theory	3/45	1	4
BP402T	Medicinal Chemistry I – Theory	3/45	1	4
BP403T	Physical Pharmaceutics II – Theory	3/45	1	4
BP404T	Pharmacology I – Theory	3/45	1	4
BP405T	Pharmacognosy and Phytochemistry I– Theory	3/45	1	4
BP406P	Medicinal Chemistry I – Practical	4/60	-	2
BP407P	Physical Pharmaceutics II – Practical	4/60	-	2
BP408P	Pharmacology I – Practical	4/60	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4/60	-	2
<b>Total</b>		<b>31/465</b>	<b>5</b>	<b>28</b>

Table-V: Course of study for semester V

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	3/45	1	4
BP502T	Formulative Pharmacy– Theory	3/45	1	4
BP503T	Pharmacology II – Theory	3/45	1	4
BP504T	Pharmacognosy and Phytochemistry II– Theory	3/45	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3/45	1	4
BP506P	Formulative Pharmacy – Practical	4/60	-	2
BP507P	Pharmacology II – Practical	4/60	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4/60	-	2
<b>Total</b>		<b>27/405</b>	<b>5</b>	<b>26</b>



**Table-VI: Course of study for semester VI**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3/45	1	4
BP602T	Pharmacology III – Theory	3/45	1	4
BP603T	Herbal Drug Technology – Theory	3/45	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3/45	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3/45	1	4
BP606T	Quality Assurance – Theory	3/45	1	4
BP607P	Medicinal chemistry III – Practical	4/60	-	2
BP608P	Pharmacology III – Practical	4/60	-	2
BP609P	Herbal Drug Technology – Practical	4/60	-	2
<b>Total</b>		<b>30/450</b>	<b>6</b>	<b>30</b>

**Table-VII: Course of study for semester VII**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3/45	1	4
BP702T	Industrial Pharmacy – Theory	3/45	1	4
BP703T	Pharmacy Practice – Theory	3/45	1	4
BP704T	Novel Drug Delivery System – Theory	3/45	1	4
BP705P	Instrumental Methods of Analysis – Practical	4/60	-	2
BP706PS	Practice School*	12/180	-	6
<b>Total</b>		<b>28/420</b>	<b>5</b>	<b>24</b>

\* Non University Examination (NUE)



  
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Table-VIII: Course of study for semester VIII

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3/45	1	4
BP802T	Social and Preventive Pharmacy	3/45	1	4
BP803ET	Pharmaceutical Marketing	3 + 3 = 6/90	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardizations of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812PW	Project Work	12/180	-	6
<b>Total</b>		<b>24/360</b>	<b>4</b>	<b>22</b>

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	27
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
<b>Total credit points for the program</b>	<b>209</b>

\* 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.



  
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## 1. 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), 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 Sessionalexam (Internal Assessment) and before the end semester exam.

## 2. Examinations/Assessments

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

### 2.1. 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 asterix symbol (\*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.



  
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Tables-X: Schemes for internal assessments and end semester examinations semester wise

Semester I

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

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

\$ 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		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
<b>Total</b>		<b>80</b>	<b>125</b>	<b>20 Hrs</b>	<b>205</b>	<b>520</b>	<b>30 Hrs</b>	<b>725</b>

\* The subject experts at college level shall conduct examinations



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Semester III

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



  
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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
<b>Total</b>		<b>70</b>	<b>115</b>	<b>21 Hrs</b>	<b>185</b>	<b>515</b>	<b>31 Hrs</b>	<b>700</b>



  
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Semester V

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Formulative Pharmacy– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Formulative Pharmacy – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
<b>Total</b>		<b>65</b>	<b>105</b>	<b>17 Hr</b>	<b>170</b>	<b>480</b>	<b>27 Hrs</b>	<b>650</b>



  
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Semester VI

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



  
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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
<b>Total</b>		<b>70</b>	<b>70</b>	<b>8Hrs</b>	<b>140</b>	<b>460</b>	<b>21 Hrs</b>	<b>600</b>

\* The subject experts at college level shall conduct examinations



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**Semester VIII**

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardizations of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory	-	-	-	-	150	4 Hrs	150
BP812PW	Project Work							
<b>Total</b>		<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>



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## 11.2 Internal assessment: Continuous mode

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

**Table-XI: Scheme for awarding internal assessment: Continuous mode**

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 2 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	4	03
Student – Teacher interaction	2	
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

**Table- XII: 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

### 11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks. The duration for the conduct of the exam is as below

Exam Type	Marks allotted	Duration
Theory	30	1.5 Hr
Practical	40	04 Hr





### Question paper pattern for theory Sessional

#### For subjects having University exams

I. Objective Type Questions (Answer 05 out of 7)	=5 x 2 = 10
II. Long Answers (Answer 1 out of 2)	=1 x 10 = 10
III. Short Answers (Answer 2 out of 3)	=2 x 5 = 10
<b>Total</b>	<b>30 marks</b>

#### For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=4 x 5 = 20
<b>Total</b>	<b>30 marks</b>

### Question paper pattern for practical sessional examinations

I. Synopsis	= 10
II. Experiments	= 25
III. Viva voce	= 05
<b>Total</b>	<b>40 marks</b>

### 12 . Promotion and award of grades

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

### 13. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, 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 for grade obtained by him/her on passing.



#### 14. Improvement of internal assessment

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

#### 15. Re-examination of end semester examinations

Reexamination of end semester examinations shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

**Table-XIII: Tentative schedule of end semester examinations**

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

#### Question paper pattern for end semester theory examinations

##### For 75 marks paper

I. Objective Type Questions (Answer 5 out of 7)	= 5 x 3 = 15
II. Long Answers (Answer 2 out of 4)	= 2 x 10 = 20
III. Short Answers (Answer 8 out of 10)	= 8 x 5 = 40
<b>Total</b>	<b>= 75 marks</b>

##### For 50 marks paper

I. Long Answers (Answer 2 out of 3)	= 2 x 10 = 20
II. Short Answers (Answer 6 out of 8)	= 6 x 5 = 30
<b>Total</b>	<b>= 50 marks</b>

##### For 35 marks paper

I. Long Answers (Answer 1 out of 2)	= 1 x 10 = 10
II. Short Answers (Answer 5 out of 7)	= 5 x 5 = 25
<b>Total</b>	<b>= 35 marks</b>



**Question paper pattern for end semester practical examinations**

I. Synopsis	= 05
II. Experiments	= 25
III. Viva voce	= 05
<b>Total</b>	<b>= 35marks</b>

**16. Academic Progression:**

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression 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 as per the norms specified in 26.

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 CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms



  
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specified in 26.

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. In simpler terms there shall NOT be any ODD BATCH for any semester.

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.

#### Rules for Carry Forward:

The curriculum (including regulations, structure and syllabi) is in force from academic year 2018-19 and onwards for First Year B. Pharm, for academic year 2019- 20 onwards for Second Year B. Pharm., for academic year 2020-21 and onwards for Third Year B. Pharm., and for academic year 2021-22 and onwards for Final Year B. Pharm.

The learners who were admitted to First Year B. Pharm. of 2015 pattern during the academic year 2017-18 or before & failed in the First Year B.Pharm. of 2015 pattern examination will have to take admission to Semester-III of Second Year B. Pharm. of

2018 pattern in academic year 2019-20 or onwards, provided that

a. Their result of F. Y. B. Pharm of 2015 pattern is either pass or fails with A. T. K. T.

The said students will have to take up additional remedial courses as follows.

b) The learners who were admitted to S.Y B. Pharm. of 2015 pattern during the academic year 2018-19 or before and fail in the S.Y B.Pharm. of 2015 pattern examination will have to take admission to Semester-V of Third Year B. Pharm. of 2018 pattern in academic year 2020-21 or onwards, provided that Their result of S. Y. B. Pharm of 2015 pattern is either pass or fails with A. T. K. T. The said students will have to take up additional remedial course as follows.

Sr. No	Remedial courses for admission to S.Y.B.Pharm in Academic Year 2019-20 (Cleared F.Y. B. Pharm as per 2015 Pattern)		
	(Non University Examination)	Semester	Passing Criteria
1.	Biochemistry – Theory/Practicals	Semester III	Minimum 50% marks with D grade
2.	Pathophysiology- Theory		Minimum 50% marks with D grade
3.	Computer Applications in	Semester IV	Minimum 50% marks with D



  
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	Pharmacy – Theory/Practicals	grade
4.	Environmental sciences – Theory	Minimum 50% marks with D grade

Sr. No	Remedial courses for admission to T.Y. B.Pharm in Academic Year 2020-21 (Cleared S. Y.B. Pharm as per 2015 Pattern )		
	(Non University Examination with 50% passing.)	Semester	Passing Criteria
1.	Medicinal Chemistry I – Theory/ Practical	Semester V	Minimum 50% marks with D grade

### 17. Grading of performances

#### 17.1. 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 – XII.

**Table – XII: 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.

### 18. 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 C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub> and C<sub>5</sub> and the student's grade points in these courses are G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, G<sub>4</sub> and G<sub>5</sub>, respectively, and then students' SGPA is equal to:

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

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:

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

#### 19. 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 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:

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

where C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>,..... is the total number of credits for semester I,II,III,..... and S<sub>1</sub>,S<sub>2</sub>, S<sub>3</sub>,..... is the SGPA of semester I,II,III,.....



*[Signature]*  
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**20. 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

**21. 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

**Evaluation of Presentation:**

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

**Total** 75 Marks

*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 presentation shall be awarded based on the performance of individual students in the given criteria.



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

### AND/OR

Every candidate shall be required to undergo any one of the Skill development modules mentioned below (Duration – Min. 04 weeks)

- a) Hands on Training (Central instrumentation lab/Machine room etc)
- b) UGC/AICTE recognized online courses (SWAYAM/NPTEL etc)

After the successful completion of the module the candidate shall submit satisfactory report and certificate duly signed by the authority of training organization/Head of the institute

## 23. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school 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). Along with the 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 college level and grade point shall be awarded.

## 24. Award of Ranks

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

## 25. Award of degree

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



  
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**26. 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.

**27. Re-admission after break of study**

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.

  
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**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHPO13150



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Dr. Kishor S. Jain  
Principal

# Course Structure 2018 Pattern

**SAVITRIBAI PHULE PUNE UNIVERSITY**

**FACULTY OF SCIENCE AND TECHNOLOGY**



**RULES & SYLLABUS**

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE  
(EFFECTIVE FROM ACADEMIC YEAR 2018-2019)**



## 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.

### 2. 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

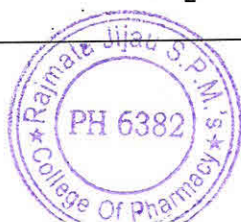
Medium of instruction and examination shall be in English.

### 5. Working days in each semester

Each semester shall 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.

### **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 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.

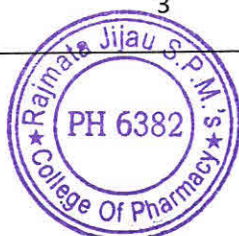
### **7.2. Minimum credit requirements**

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 Project over 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.

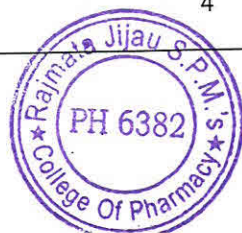
**Table-I: Course of study for semester I**

Course code	Name of the course	No. of hours	Tutorial	Credit points
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
<b>Total</b>		<b>32/34<sup>S</sup>/36<sup>#</sup></b>	<b>4</b>	<b>27/29<sup>S</sup>/30<sup>#</sup></b>

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

<sup>S</sup>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 sen**

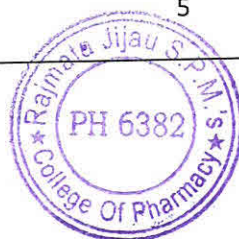
Course Code	Name of the course			
BP201T	Human Anatomy and Physiology II – Theory			
BP202T	Pharmaceutical Organic Chemistry I – Theory			
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – 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
<b>Total</b>		<b>32</b>	<b>4</b>	<b>29</b>

  
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\*Non University Examination (NUE)

**Table-III: 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
<b>Total</b>		<b>28</b>	<b>4</b>	<b>24</b>



**Table-IV: 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
<b>Total</b>		<b>31</b>	<b>5</b>	<b>28</b>

**Table-V: 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 PharmacyI- 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 PharmacyI – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
<b>Total</b>		<b>27</b>	<b>5</b>	<b>26</b>





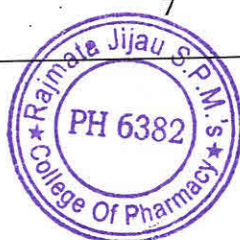
**Table-VI: Course of study for semester VI**

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
<b>Total</b>		<b>30</b>	<b>6</b>	<b>30</b>

**Table-VII: 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 PharmacyII – 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
<b>Total</b>		<b>28</b>	<b>5</b>	<b>24</b>

\* Non University Examination (NUE)



**Table-VIII: 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
<b>Total</b>		<b>24</b>	<b>4</b>	<b>22</b>

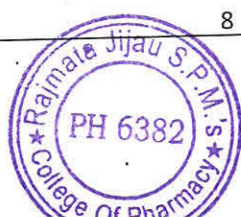
**Table-IX: Semester wise credits distribution**

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

\* 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.

<sup>s</sup>Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

<sup>#</sup>Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.



## 10. 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), nominated by the Head of the institution.

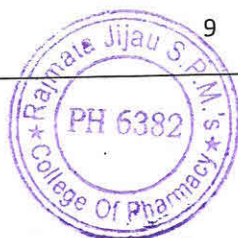
3. Duties of the Program Committee:
  - i. Periodically reviewing the progress of the classes.
  - ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
  - iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall 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 Sessionalexam (Internal Assessment) and before the end semester exam.

## 11. Examinations/Assessments

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

### 11.1. 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 asterix symbol (\*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.



**Tables-X: Schemes for internal assessments and end semester examinations semester wise**

**Semester I**

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

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

<sup>S</sup>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		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
<b>Total</b>		<b>80</b>	<b>125</b>	<b>20 Hrs</b>	<b>205</b>	<b>520</b>	<b>30 Hrs</b>	<b>725</b>

\* The subject experts at college level shall conduct examinations



**Semester III**

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



**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
<b>Total</b>		<b>70</b>	<b>115</b>	<b>21 Hrs</b>	<b>185</b>	<b>515</b>	<b>31 Hrs</b>	<b>700</b>



Semester V

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
<b>Total</b>		<b>65</b>	<b>105</b>	<b>17 Hr</b>	<b>170</b>	<b>480</b>	<b>27 Hrs</b>	<b>650</b>





Semester VI

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



**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
<b>Total</b>		<b>70</b>	<b>70</b>	<b>8Hrs</b>	<b>140</b>	<b>460</b>	<b>21 Hrs</b>	<b>600</b>

\* 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		Total	Marks		Duration
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work	-	-	-	-	150	4 Hrs	150

<b>Total</b>	<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>
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### 11.2. Internal assessment: Continuous mode

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

**Table-XI: Scheme for awarding internal assessment: Continuous mode**

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

**Table - XII: 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

#### 11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

#### Question paper pattern for theory Sessional examinations

##### For subjects having University examination

I. Multiple Choice Questions (MCQs)

$$= 10 \times 1 = 10$$

OR

Objective Type Questions (5 x 2)

$$= 05 \times 2 = 10$$

(Answer all the questions)

I. Long Answers (Answer 1 out of 2)

$$= 1 \times 10 = 10$$

II. Short Answers (Answer 2 out of 3)

$$= 2 \times 5 = 10$$

$$\text{Total} = 30 \text{ marks}$$



**For subjects having Non University Examination**

I. Long Answers (Answer 1 out of 2) = 1 x 10 = 10

II. Short Answers (Answer 4 out of 6) = 4 x 5 = 20

Total = 30 marks

**Question paper pattern for practical sessional examinations**

I. Synopsis = 10

II. Experiments = 25

III. Viva voce = 05

Total = 40 marks

**12. Promotion and award of grades**

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

**13. Carry forward of marks**

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, 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 for grade obtained by him/her on passing.

**14. 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 next end semester theory examinations.

**15. Re-examination of end semester examinations**

Reexamination of end semester examinations shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.



**Table-XIII: Tentative schedule of end semester examinations**

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

**Question paper pattern for end semester theory examinations**

**For 75 marks paper**

- I. Multiple Choice Questions(MCQs) = 20 x 1 = 20  
 OR  
 Objective Type Questions (10 x 2) = 10 x 2 = 20  
 (Answer all the questions)
- II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20  
 III. Short Answers (Answer 7 out of 9) = 7 x 5 = 35

Total = 75 marks

**For 50 marks paper**

- I. Long Answers (Answer 2 out of 3) = 2 x 10 = 20  
 II. Short Answers (Answer 6 out of 8) = 6 x 5 = 30

Total = 50 marks

**For 35 marks paper**

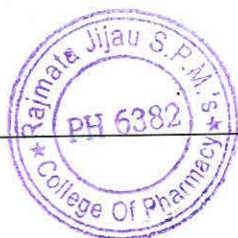
- I. Long Answers (Answer 1 out of 2) = 1 x 10 = 10  
 II. Short Answers (Answer 5 out of 7) = 5 x 5 = 25

Total = 35 marks

**Question paper pattern for end semester practical examinations**

- I. Synopsis = 5  
 II. Experiments = 25  
 III. Viva voce = 5

Total = 35 marks



**16. Academic Progression:**

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression 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 as per the norms specified in 26.

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 CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

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. In simpler terms there shall NOT be any ODD BATCH for any semester.



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.

## 17. Grading of performances

### 17.1. 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 – XII.

**Table – XII: 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.

## 18. 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 C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub> and C<sub>5</sub> and the student's grade points in these courses are G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, G<sub>4</sub> and G<sub>5</sub>, 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:





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

### 19. 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 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:

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

where  $C_1, C_2, C_3, \dots$  is the total number of credits for semester I, II, III,  $\dots$  and  $S_1, S_2, S_3, \dots$  is the SGPA of semester I, II, III,  $\dots$ .

### 20. Declaration of class

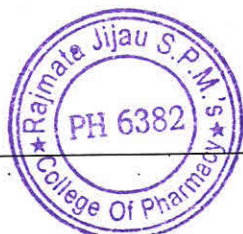
The class shall be awarded on the basis of CGPA as follows:

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

### 21. 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

***Evaluation of Presentation:***

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

**Total** 75 Marks

*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 presentation shall be awarded based on the performance of individual students in the given criteria.

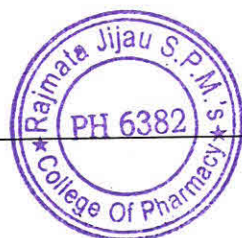
**22. Industrial training (Desirable)**

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes 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 the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

**23. Practice School**

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school 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). Along with the 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 college level and grade point shall be awarded.



#### **24. Award of Ranks**

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

#### **25. Award of degree**

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


#### **26. 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.

#### **27. Re-admission after break of study**

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.

  
**PRINCIPAL**  
Rajmata Jijau Shikshan Prasarak Mandal's  
**COLLEGE OF PHARMACY**  
Dudulgaon, Pune-412 105.





RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHP013150



Certified by ISO 9001-2015,  
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# Course Structure 2015 Pattern

SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF PHARMACEUTICAL SCIENCES



**COURSE STRUCTURE & SYLLABI**  
**BACHELOR OF PHARMACY (B. Pharm.) COURSE**  
**(EFFECTIVE FROM ACADEMIC YEAR 2015-16)**  
*Credit and Grading Based Semester System*



**Course Title:** Bachelor of Pharmacy

**Abbreviation:** B. Pharm.

**Medium of Instruction And Examination:** English

**Type of Course:** A four year degree course divided into eight Semesters.

**Pattern:** Semester.

**Number of Years and Semester:** Four Years divided into eight semesters with two semesters per year.

**Nomenclature of Semesters :**

Semester-I & Semester-II	First Year B. Pharm.
Semester-III & Semester-IV	Second Year B. Pharm.
Semester-V & Semester-VI	Third Year B. Pharm.
Semester-VII & Semester-VIII	Final Year B. Pharm.

**Award of the Degree :** Degree will be awarded to those passing in all the eight semesters as per the rules and regulations.

**Duration of Semester :** Each Semester will be normally of 15 weeks duration for class room teaching and practicals and internal evaluation.



### Definitions:

1. **University** means Savitribai Phule Pune University until and otherwise specified.
2. **The college/Institute** is any college conducting B. Pharmacy course affiliated to Savitribai Phule Pune University.
3. **State Govt.:** Govt. of Maharashtra
4. **Admission Authority:** An authority responsible for effecting admissions to B. Pharm course as prescribed by Govt. of Maharashtra
5. **DTE** – Directorate of Technical Education, Maharashtra State.
6. **AICTE** – All India Council for Technical Education, New Delhi
7. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
8. **Course:** Usually referred to, as ‘papers’ is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
9. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of number of credits to be completed by the learners.
10. **Credit Point:** It is the product of grade point and number of credits for a course.
11. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
12. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a learner over all semesters. The CGPA is the ratio of total credit points secured by a learner in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal points.
13. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
14. **Letter Grade:** It is an index of the performance of learners in a said course. Grades



are denoted by letters O, A+, A, B+, B, C, P and F.

15. **Programme:** An educational programme leading to award of a Degree, diploma or certificate.
16. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a learner in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal points.
17. **Semester:** Each semester will consist of 15 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June.
18. **Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered learners after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.





## **R.1. AIM & OBJECTIVES OF THE COURSE**

### **AIM:**

The Pharmacy graduates are required to learn and acquire adequate knowledge, necessary skills to practice the profession of pharmacy. The graduate should have adequate knowledge of synthesis & analysis of medicinal agents, their mode and mechanism of action, drug interactions, patient counselling and adequate technical information to be exchanged with the physician and other health professionals. The graduates are required to acquire in depth knowledge of formulation, quality assurance and storage of various pharmaceutical dosage forms including herbal medicines. The graduates should also understand the concept of community pharmacy and be able to participate in health care programmes of Government and private sector. They are also required to detail the physicians and market the medicinal agents for diagnosis, prevention and therapeutic purposes. The graduate pharmacist should also act as bridge between the Physician and Patients for achieving better health of community.

### **OBJECTIVES:**

The following objectives of the course should be achieved by acquiring an in-depth knowledge & thorough understanding, necessary skills and developing the right attitude. Therefore they are categorized into following heads.

#### **a. Knowledge and Understanding**

The graduates should acquire the following during their B. Pharm. Course.

1. Adequate knowledge and scientific information regarding basic principles of Pharmaceutical & Medicinal Chemistry, Pharmaceutics including Cosmeticology, Pharmacology, Pharmacognosy including herbal medicines.
2. Adequate knowledge of practical aspects of
  - Synthesis of APIs & its intermediates and analysis of various pharmaceutical dosage forms



- Formulation developments & quality assurance of various pharmaceutical dosage forms including those of herbal origin as per standards of official books, WHO and other regulatory agencies like USFDA, MHRA etc.
- Pharmacological screening and biological standardization and *in-vivo* drug interactions.
- Preparation & analysis of suitable plants material/extracts of medicinal importance for various herbal formulations.
- Clinical studies, patient counseling leading to physical and social well being of the patients.
- Product detailing, marketing, distribution and selling of pharmaceutical products.

**b. Skills:**

A graduate should be able to demonstrate following skills necessary for practice of a Pharmacy

- Able to synthesize, purify, identify and analyze medicinal agents.
- Able to formulate, store, dispense, manufacture the pharmaceutical products and analyze the prescriptions.
- Able to learn and apply the quality assurance principles in regulatory and ethical aspects
- Able to extract, purify, identify and understand the therapeutic value of herbal/crude/natural products
- Able to screen various medicinal agents using animal models for pharmacological activity.

**c. Attitudes:**

A graduate should develop the following attitudes during the course.

- Willing to apply the current knowledge of Pharmacy in the best interest of the patients and the community.
- Maintain high standards of professional ethics in discharging professional obligations.
- Continuously upgrade professional information and be conversant with latest advances in the field of pharmacy to serve community better.



- Willing to participate in continuing education programmes of PCI/AICTE/ Savitribai Phule Pune University to upgrade the knowledge and professional skills.
- To help and participate in the implementation of National Health Programmes.

## **R.2. ELIGIBILITY CRITERIA**

**A. In order to secure admission to Semester –I of the Four year Degree Course in Pharmacy, the candidate should fulfil the following eligibility criteria;**

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics/Biology /Biotechnology/Technical Vocational subject

**AND**

Secured minimum 45 % marks (minimum 40 % marks in case of candidates of Backward class categories and Persons with Disability belonging only to Maharashtra State) in the subjects Physics, Chemistry and Mathematics/ Biology/Biotechnology/Technical Vocational subject added together (Maximum of marks obtained in Mathematics/ Biology/Biotechnology/Technical Vocational subject shall be considered for the purpose of addition)

**AND**

Obtained a non zero score in subjects Physics, Chemistry and Mathematics/ Biology added together at MT-CET 2015.

**AND**

Any other eligibility criteria decided by competent authority time to time.

**B. Eligibility Criteria for Admission at the entry level of Semester-III. (i.e. the first semester of Second Year B. Pharm.)** Diploma holders who have passed the Diploma course in Pharmacy with minimum of 45% marks and medium of instruction as English from AICTE approved Polytechnics.



**NOTE:** In case of eligibility criterion decided by the Govt. of Maharashtra differs from above, University authorities shall decide the eligibility criterion from time to time. In case of foreign national learners eligibility criteria for admission to F. Y. B. Pharm should be decided by University authorities.

### **R.3. SCHEME OF EXAMINATION:**

**R.3.1. Examination conducting authority:** Savitribai Phule Pune University, Pune.

**R.3.2. Regular and Supplementary Examinations and time:** (Tentative schedule) The University will decide exact schedule on the basis of prevailing situation.

<b>Semester</b>	<b>Odd Semester Examination</b>	<b>Even Semester Examination</b>
I, III, V & VII	(November/December)	(April/May)
II, IV, VI & VIII		

Duration of Examination, Marks etc See Examination scheme at *Annexure I*

**R.3.3. Criteria for admitting the learner for examinations irrespective of regular or supplementary examinations:**

- Learner must have been admitted to the respective Semester as per the criteria for continuation into the respective Semesters given in R-4 and has kept the term for the Semester for which he is examined.
- The learner must submit prescribed application form along with fees.
- Learner must appear for the examination at the place and time as decided by the admitting Institute/ the University as the case may be.
- Learner who has failed in a particular Semester or has ATKT will be allowed to appear for the same examination on filing new application being forwarded and after paying requisite fee.



*Clarifications:*

- Learner having ATKT will appear for examinations in only those subject heads in which the learner has failed except stated below.
- The learner who has passed in all the subjects but failed due to not getting overall CGPA 5 will be allowed to appear in any number of subject heads (theory) desired by the learner.
- For all the remaining cases, the learner has to appear for examination in all those subject heads in which the learner failed.

**R.3.4. Sessional Examinations**

- Each Semester will consist of a minimum of 15 weeks instructions.  
\*i.e.  $15 \times 6 = 90$  instructional days (minimum instructional days)
- 75% attendance for both theory and practical classes separately shall be mandatory to appear for sessional examination and end semester examination.
- Conducting authority shall be Institutes where learner is admitted.
- In- semester assessment will be of 40 marks which includes 20 marks for theory and practical sessional and 20 marks for continuous assessment for theory and practical.  
In-semester assessment of 20 marks should be continuous, procedures and marks for theory and practical examination are as follows –
  - i. For theory and practical Examination – In-semester assessment for 20 marks should be continuous and at least two tests should be conducted for full course of 3 credits for theory and 2 credits for practical and the teacher must select a variety of procedures for examination such as :
    - a) Written test and / or midterm test (not more than one or two for each course)
    - b) Term paper
    - c) Journal / Lecture / Library notes
    - d) Seminar presentation
    - e) Short Quizzes
    - f) Assignments
    - g) Extension work



h) An open book test (with the concern teacher deciding what books are to be allowed for this purpose)

or

i) Mini research project by individual learner or group of learners

The concern teacher in consultation with the head of Department shall decide the nature of question for the unit test.

*Number of Sessional Examination:*

- There will be a minimum of one sessional examination of 20 marks conducted in each semester after minimum eight weeks of teaching from the date of commencement of that semester in each of the theory subjects during the semester.
- One Sessional Examination will be conducted as per the examination scheme (See Annexure no. I) for each semester. The learner who will secure less than 40% mark in the Sessional Examination or unable to appear for the scheduled Sessional Examination may be permitted for the Sessional Examination in the same semester only if approved by institutional examination committee and paying fees as prescribed by the institution. The institutional examination committee shall consist of Principal (Chairman), & four teachers nominated by the Principal.
- Practical sessional examination of 20 marks will be based on internal assessment of practical (Experimental work), viva, synopsis and laboratory record. The distribution of marks for practical examination will be as follows –

**Scheme for Practical Sessional Examination**

Sr. No.	Head	Marks distribution
1	Experimental work	10
2	Synopsis & Viva	06
3	Lab Record	04
	Total Marks	20
	Duration	03 Hrs.

- Daily assessment of practicals will be based on day to day attendance, learners' skills (performance), viva, laboratory record, etc.
- Theory sessional examination of 20 marks will be conducted after completion of at least two thirds syllabus of the semester.
- The distribution of marks for theory sessional examination will be as given below-



Sr. No.	Head	Marks distribution
Q. 1	2 marks X 3 questions (out of five)	= 6 marks
Q. 2	4 marks X 2 questions (out of three)	= 8 marks
Q. 3	6 marks X 1 questions (out of two)	= 6 marks
	Total	= 20 marks

*Time Schedule:*

**The time schedule for theory sessional examination will be 1 hour.**

- The Retest/ Improvement test/ or supplementary test for the Sessional Examinations will be allowed for the failed learners in the University examination, if he/she is appearing for the University exam of that subject head.
- The Retest/ Improvement test/ or supplementary test shall be carried by the respective Institution and the marks obtained by the learner shall be forwarded to the University.
- The institute conducting the course must submit the Sessional Examination marks of the respective semester to the Controller of Examinations in soft copy and print before the commencement of theory or practical examination whichever is later.

**R.3.5. Scaling Down the Marks Obtained by the Learner at the Internal Examination as Compared to the Marks Obtained by the Learner in the Semester End Theory and Practical Examination in the Course Concerned**

- Concept of scaling shall be applicable only for the marks obtained by the learners at all the individual courses.
- Marks obtained by the learner at the Internal Assessment and Semester End Examinations should be converted to the percentage marks course wise.
- Concept of scaling shall be applicable only in cases where the marks obtained by the learner in the Internal Assessment and Semester End Assessment Examinations differ by more than 20% in the course concerned i.e. percentage marks of the learner at a course in the Internal Assessment is 20% more than the percentage of marks



scored by the learner concerned in the Semester End Examination in the course concerned.

- Learner at the course concerned in the Internal Assessment should be scaled down to 20% plus the percentage score of the learner at the Semester End Examination.
- The concept of scaling shall be applicable only in course/s where the learner has passed the course. In case if a learner fails in one or more courses at an attempt then the concept of scaling shall be applied to the courses that the learner has passed at the attempt concerned and for the remaining courses where the learner has failed, the concept of scaling will be applicable as and when the learner passes the course or earns the credit for the course.
- The scaled marks can thus be used to calculate the Credits, Grades, Credit points earned by the learner can then be used to calculate the SGPA and CGPA.
- Concept of scaling shall not be applicable where the percentage of the marks scored by the learner at the Semester End Examination is more than the percentage marks scored by the learner in the Internal Assessment at the course concerned. One of the reasons for the learner scoring low marks at the Internal Assessment could be nonappearance for one of the components of the Internal Assessment.

**Sample Case of a Learner at F.Y.B.Pharm. Semester I of B.Pharm. Programme**

Marks Obtained	Max. Marks	1.1.1 T	1.1.1 P	1.1.2 T	1.1.2 P	1.1.3 T	1.1.3 P	1.1.4 T	1.1.4 P	1.1.5 T	1.1.5 P	1.1.6 T
Internal Assessment	40	28	39	38	37	40	36	37	35	31	34	32
Semester End Examination	60	33	27	24	51	25	32	45	36	26	58	55

Marks Obtained	Max. Marks	1.1.1 T	1.1.1 P	1.1.2 T	1.1.2 P	1.1.3 T	1.1.3 P	1.1.4 T	1.1.4 P	1.1.5 T	1.1.5 P	1.1.6 T
Internal Assessment	40	70%	97.5%	95%	92.5%	100%	90%	92.5%	87.5%	77.5%	85%	80%
Semester End Examination	60%	54.78%	44.82%	39.84%	84.66%	41.5%	53.12%	74.7%	59.76%	43.16%	96.28%	91.3%





Marks Obtained	Max. Marks	1.1.1 T	1.1.1 P	1.1.2 T	1.1.2 P	1.1.3 T	1.1.3 P	1.1.4 T	1.1.4 P	1.1.5 T	1.1.5 P	1.1.6 T
Revised Internal Assessment Score	40	28*	25.92	23.93	37*	24.60	29.24	37*	31.90	25.26	34*	32*
Semester End Examination	60	33	27	24	51	25	32	45	36	26	58	55

\*In these cases the percentage difference in the marks of Internal Assessment and Semester End Examination is less than 20% hence the original marks are retained.

#### R.4.:

Continuation into the subsequent semesters after the entry level semesters. The admitting authority will be the individual institutes where the learner has been admitted into the course, and the continuation will be as per the criteria decided by the University for each semester.

The following criteria are applicable to all the learners for continuation.

R.4.1. A learner, to be eligible for the Degree will be required to pass examinations, as under:-

First year B. Pharm.	Semester-I & Semester-II
Second year B. Pharm.	Semester-III & Semester-IV
Third year B. Pharm.	Semester-V & Semester-VI
Fourth year B. Pharm.	Semester-VII & Semester-VIII

#### R.4.2.

No learner will be admitted to any examination unless he/she keeps term at a College affiliated to the University and produces from the Principal of the College, testimonials of satisfactory attendance at the theory, Practical and term work classes as prescribed.



**R.4.3. Promotion from odd semester to even semester in the same academic year**

- A Learner who fails in Semester - I examination of First Year B. Pharm. will be allowed to keep term for his/her Semester –II Examination, of First Year B. Pharm.
- A Learner who fails in Semester – III examination of Second Year B. Pharm. will be allowed to keep term for his/ her Semester – IV Examination of Second Year B. Pharm.
- A Learner who fails in Semester – V examination of Third Year B. Pharm. will be allowed to keep term for his/her Semester – VI Examination of Third Year B. Pharm.
- A Learner who fails in Semester – VII examination of Fourth Year B. Pharm. will be allowed to keep term for his Semester – VIII Examination of Fourth Year B. Pharm.

**R.4.4. Promotion to subsequent academic year-**

- A learner who fails in more than 7 heads (Theory & practical) of total number of subjects taken together at Semester I and Semester II /Semester III & Semester IV course examination will not be permitted to keep terms in the higher class viz. Semester III / Semester V.of B. Pharm. Course examination respectively.
- A learner who fails in more than 8 heads (Theory & practical) of total number of subjects taken together at Semester V and Semester VI course examination will not be permitted to keep terms in the higher class viz. Semester VII of B. Pharm. Course examination.

**R.4.5. Clarification of R.4.3. and R.4.4.**

1. No learner will be admitted to the Semester III course unless he/she passes his/her Semester I and Semester II examination of B. Pharm.

**OR**



Fails in not more than 7 heads (Theory and Practical) at the Semester I and Semester II examination of B.Pharm.

- No learner will be admitted to the Semester V course unless he/she passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B.Pharm.

**OR**

passes his/her Semester I and Semester II examination of B. Pharm. and fails in not more than 7 of total number of heads (Theory and Practical) at the Semester III & Semester IV Examinations of B. Pharm.

- No learner will be admitted to the Semester VII course of B. Pharm. unless he/she Passes his/her Semester I & Semester II., Semester III & Semester IV., Semester V & Semester VI Examinations of B. Pharm. examinations,

**OR**

passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B. Pharm. and fails in not more than 8 of total number of heads (Theory and Practical) at the Semester V & Semester VI Examinations of B. Pharm.

#### **R.4.6. Allowed to Keep Terms (ATKT) rules.**

Number of subjects: ATKT will be awarded to those who have failed in 1/3 subject head (33%) as described in table **given** below

At the end of academic Year		Total subject heads at the end of academic year.	33 % of total subjects (To nearest full digit)
First	Theory	06+06=12	4
	Practical	05+05=10	3
Second	Theory	06+06=12	4
	Practical	05+05=10	3
Third	Theory	07+07=14	5
	Practical	05+05=10	3



## **R.5. Marks, Criteria for passing and other conditions.**

### **R.5.1. Passing criteria for each subject head:**

Maximum marks for each subject head and the minimum marks for passing in each of the subject head –See Examination scheme given in *Annexure I*.

No separate passing is required for sessional examination and if the learner remains absent for the test, the learner will be just treated as not appeared for the test securing zero marks. What so ever mark obtained by the learner will be added to the marks obtained by the learner in University examination as shown in scheme of examination given in *Annexure I*.

In no circumstances previous marks will be considered. If a learner's application form for reappearing in the examination in a subject head is accepted, and the learner appears in the examination (Sessional examination & Semester examination) fresh marks will be considered.

### **R.5.2. Passing of the semester.**

Learner will be considered as passed the semester only when the learner passes in the entire subject heads and obtains overall a minimum CGPA of 5 as prescribed for the semester see Annexure I.

### **R.5.3. Letter Grades and Grade Points:**

1. The marks are converted to grades based on pre-determined class intervals. As per recommendations of UGC. A 10-point grading system with the following letter grades as given below:



**Table 1: Grades and Grade Points**

Marks Obtained	Letter Grade	Grade Point
90 above	O (Outstanding)	10
80 to 89	A+(Excellent)	9
70 to 79	A(Very Good)	8
60 to 69	B+(Good)	7
50 to 59	B(Above Average)	6
46 to 49	C(Average)	5
40 to 45	P (Pass)	4
0 to 39	F(Fail)	0
N. A	Ab (Absent)	0

2. A learner obtaining Grade F shall be considered failed and will be required to reappear in the examination.
3. For non credit courses 'Satisfactory' or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.

**R 5.4. Computation of SGPA and CGPA:**

As per recommendation of UGC the following procedure is adopted to compute the Semester Grade Point

Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a learner in all the courses taken by a learner and the sum of the number of credits of all the courses undergone by a learner, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where  $C_i$  is the number of credits of the  $i$ th course and  $G_i$  is the grade point scored by the learner in the  $i$ th course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a learner over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$



where  $S_i$  is the SGPA of the  $i$ th semester and  $C_i$  is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

### R.5.5. Illustration of Computation of SGPA and CGPA and Format for Transcripts

- i. Computation of SGPA and CGPA

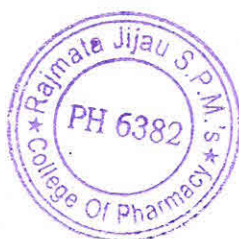
Illustration for SGPA

	Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
1.1.1 T	Pharmaceutics- I	3	A	8	3 X 8 = 24
1.1.1 P	Pharmaceutics- I	2	A	8	2 X 8 = 16
1.1.2 T	Modern Dispensing Practices	3	B+	7	3 X 7 = 21
1.1.2 P	Modern Dispensing Practices	2	A	8	2 X 8 = 16
1.1.3 T	Pharmaceutical Inorganic Chemistry	3	O	10	3 X 10 = 30
1.1.3 P	Pharmaceutical Inorganic Chemistry	2	O	10	2 X 10 = 20
1.1.4 T	Pharmaceutical Organic Chemistry-I	3	A	8	3 X 8 = 24
1.1.4 P	Pharmaceutical Organic Chemistry-I	2	A	8	2 X 8 = 16
1.1.5 T	Human Anatomy & Physiology-I	3	B+	7	3 X 7 = 21
1.1.5 P	Human Anatomy & Physiology-I	2	B+	7	2 X 7 = 14
1.1.6 T	Communication and soft skill development	3	B	6	3 X 6 = 18
		28			220

Thus,  $SGPA = 220/28 = 7.85$

Illustration for CGPA

Semester 1	Semester 2	Semester 3	Semester 4
Credit : 28	Credit : 28	Credit : 28	Credit : 28
SGPA:7.86	SGPA:7.04	SGPA: 6.42	SGPA:7.21



Semester 5	Semester 6	Semester 7	Semester 8
Credit : 31	Credit : 31	Credit : 31	Credit : 31
SGPA:8.42	SGPA:7.24	SGPA: 6.74	SGPA:8.44

Thus,

$$\text{CGPA} = \frac{28 \times 7.89 + 28 \times 7.04 + 28 \times 6.42 + 28 \times 7.21 + 31 \times 8.42 + 31 \times 7.24 + 31 \times 6.74 + 31 \times 8.44}{236} = 7.46$$

- ii. Transcript (Format): Based on the above recommendations on Letter grades, grade points and SGPA and CGPA, the Higher Educational Institutes may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters

**Table indicating Final Grade**

CGPA	Final Grade
9.10 – 10.00	O (Outstanding)
8.10 – 9.00	A+(Excellent)
7.10 – 8.00	A(Very Good)
6.51 – 7.00	B+(Good)
6.10 – 6.50	B(Above Average)
5.51 – 6.00	C(Average)
5.00 – 5.50	P (Pass)
0 – 4.99	F(Fail)
N. A	Ab (Absent)

#### **R.5.6. Award of the degree and Grade.**

Degree will be awarded to the learners who have passed all the eight semesters. Final grade will be awarded on the basis of combined CGPA at the Semester-I to Semester VIII.



A learner will be allowed to improve his/her class at B. Pharm. by reappearing for the subjects (maximum 3 theory subjects of that examination) from V to VIII Semesters of B. Pharm. Course as per prevalent policy of University.

**R.5.7. With holding of results.**

A learner's result will be withheld under the following situations and of the respective Semester.

1. Withholding of result for not fulfilling passing criteria for advancement to subsequent classes-

Result of Semester IV will be with held if the learner has not passed Semester-I and Semester II.

Result of Semester VI will be with held if the learner has not passed Semester-III and Semester -IV.

Result of Semester VIII will be with held if the learner has not passed Semester- V & Semester-VI.

2. Withholding of result for failure to comply University rules-

The result of learner shall be withheld if the learner is found guilty in malpractices during examinations and any other failure to comply University rules and regulation as confirmed by appropriate body of University.

**R.5.8. Exemption to appear for the examination:**

If a learner has got ATKT, the learner will be exempted from appearing the examination for those subject heads in which the learner has passed.

Any learner who has passed in any subject head is exempted for appearing the examination in that subject head.

Notwithstanding above if a learner has passed in all the subjects but failed due to not getting CGPA or SGPA of '5', may appear for the examination in any three theory subject heads so as to get over all CGPA or SGPA of '5'. In such cases, best





of performance will be considered. For example if the learner gets over all CGPA or SGPA of '5' but fails in one of the subject heads in which the learner had passed earlier, the learner will be treated as passed in that subject head as per previous examination and result will be declared as per the rules applicable to the passed learners. The marks of the subject head in which the learner has not appeared for the examination will be carried forward.

#### **R.5.9. Professional/Industrial Training**

Every learner shall be required to work for at least four weeks in a Pharmaceutical Industry it includes Production unit, Q. C department, Q. A department, analytical laboratory, chemical manufacturing unit, pharmaceutical R & D, hospital (Clinical Pharmacy), clinical research organization and wholesale drug store etc after the Semester- IV of the course of study, and shall submit satisfactory report of such work form industry to the head of the institute. The learner should also submit one copy to the University for the Award of Degree along with convocation form. The learner may undergo practical training in parts, each constituting not less than two weeks.



**R.5.10.**

The pattern for University theory examination question paper shall be as given below:

Scheme for theory Examination: - Each Theory paper should be divided in 2 sections which should be attempted in separate answer sheet.

Sr. No.	Head	Marks distribution
<b>Section – I</b>		
Q.1.	Long answers question	10 marks (10 mark x 1 Qs, out of 2 Qs.)
Q.2	Small answers questions – 3 marks ( word limit 75 to 100 words)	12 marks (3 mark x 4 Qs, out of 7 Qs.)
Q.3	Short answers questions – 5 marks ( word limit 125 to 150 words)	8 marks (4 mark x 2 Qs, out of 4 Qs.)
<b>Section – II</b>		
Q.4	Long answers question	10 marks (10 mark x 1 Qs, out of 2 Qs.)
Q.5	Small answers questions – 3 marks ( word limit 75 to 100 words)	12 marks (3 mark x 4 Qs, out of 7 Qs)
Q.6	Short answers questions – 5 marks ( word limit 125 to 150 words)	8 marks (4 mark x 2 Qs, out of 4 Qs.)
	<b>Total maximum marks of section I and</b>	<b>60 marks</b>
	<b>Duration of examination</b>	<b>3 Hrs.</b>

**Note:**

1. There shall be no word limit set for long answer questions.
2. Paper setters should cover entire syllabus while setting the question paper.
3. The detailed guidelines with respect to these instructions shall be given to all paper setters by the University.

**Scheme for University Practical Examination**

Sr. No.	Head	Marks distribution
1	Synopsis	10
2	Major experiment	25
3	Minor experiment	15
4	Viva	10
	Total Marks	60
	Duration	04 Hrs.



## **R-6: ENVIRONMENTAL SCIENCES**

An additional course in environmental sciences shall be conducted as per following guidelines.

1. A course in Environmental Awareness with duration of six months (30 lectures of one hour duration & field work of 10 hours duration.) shall be introduced at the semester III of second year of degree course B.Pharm as a compulsory course.
2. An additional course fee of Rs. 1000 per learner shall be charged to meet the expenditure on the conduct of the course.
3. A course Coordinator shall be appointed to organize teaching and evaluation by the Principal.
4. Qualifications of a Teacher.

University approved teacher (minimum Asst. Prof.) or expert in Environmental Sciences possessing substantial knowledge to teach a course on environmental studies shall be eligible to teach the course. Principal of the College shall be authorized to determine the eligibility of the teacher on environmental studies. This course is to be introduced from the second year B. Pharm.

5. The college on behalf of the University shall conduct the examination of this subject immediately before or after Semester examinations of S.Y./T.Y./Final Year B.Pharm.
6. The learner should clear this subject before passing the Final Year B. Pharm examination.
7. A learner has to pass in this course in order to obtain degree certificate. If the learner passes in all subjects of degree course but fails in this paper, he will not be eligible to obtain degree certificate.
8. Examination: the College shall organize the evaluation as per pattern suggested below.

The Principal shall submit the result sheet to the Controller of Examination, Savitribai Phule Pune University, Pune on or before the end of the final year University Examinations of B. Pharm. course. The results of University examination of the learner who fail to get Minimum 'C' Grade in this course shall be kept in



reserve till the concerned learner complete the course and secure to require Minimum C Grade.

The question paper shall include the questions as under

- A. Multiple choice questions :50 Marks
- B. Essay type questions :25 Marks
- C. Field works :25 Marks

Total: 100 Marks Passing Marks: 40 Marks.

Following Grades shall be awarded to the learners based on their marks obtained.

**Grade-O:** above 75    **Grade-A:** 61 to 75    **Grade-B:** 51 to 60    **Grade-C:** 40 to 50

#### **R-7: Rules for Carry Forward**

This revised curriculum (including regulations, structure and syllabi) will be in force from academic year 2015-16 and onwards for First Year B. Pharm, for academic year 2016-17 onwards for Second Year B. Pharm., for academic year 2017-18 and onwards for Third Year B. Pharm., and for academic year 2018-19 and onwards for Final Year B. Pharm.

1. The learners who were admitted to First Year B. Pharm. of 2013 pattern during the academic year 2014-15 or before & would fail or have failed in the First Year B. Pharm. of 2013 pattern examination will have to take admission to Semester-III of Second Year B. Pharm. of 2015 pattern in academic year 2016-17 or onwards, provided that
  - a. Their result of F. Y. B. Pharm of 2013 pattern is either pass or fails with A. T. K. T.
2. The learners who will be admitted to Second Year B. Pharm. of 2013 pattern during academic year 2015-16 and who will fail in the Second Year B. Pharm. 2013 pattern



examination will have to take admission to Semester- V of T. Y. B. Pharm. of 2015 pattern in academic year 2017-18 or onwards, provided that

- a. They have passed in all subjects of F. Y. B. Pharm. of 2013 syllabus.
- b. Their result for S. Y. B. Pharm. of 2013 pattern is either Pass or Fail with A. T. K. T.

Such learners will have to pass in all the subjects of S. Y. B. Pharm. 2013 pattern before taking admission to Semester- VII of Final Year B. Pharm. 2015 pattern.

3. The learners who will be admitted to Third Year B. Pharm. of 2013 pattern during the academic year 2016-17 and who would fail in T. Y. B. Pharm. 2013 pattern examination will have to take admission to Semester- VII of Final year B. Pharm. of 2015 pattern, provided that

- a. They have passed in all subjects of S. Y. B. Pharm. of 2013 pattern
- b. Their result for T. Y. B. Pharm. 2013 pattern is Pass or Fail with A. T. K. T.



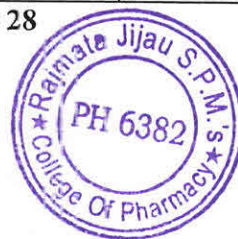
**Annexure I**

Scheme of Examination for eight semesters of B. Pharm. Course Name and number of heads of passing, number of paper, duration of examination, maximum marks, minimum marks for passing, Sessional Examination, duration, maximum marks.

**Semester-I****Class- First Yr. B. Pharmacy**

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Sessional Maximum marks	Continuous Assessment marks		
1.1.1 T	Pharmaceutics- I	3	3	3	60	24	1.5	20	20	100	40
1.1.1 P	Pharmaceutics- I	3	2	4	60	24	3	20	20	100	40
1.1.2 T	Modern Dispensing Practices	3	3	3	60	24	1.5	20	20	100	40
1.1.2 P	Modern Dispensing Practices	3	2	4	60	24	3	20	20	100	40
1.1.3 T	Pharmaceutical Inorganic Chemistry	3	3	3	60	24	1.5	20	20	100	40
1.1.3 P	Pharmaceutical Inorganic Chemistry	3	2	4	60	24	3	20	20	100	40
1.1.4 T	Pharmaceutical Organic Chemistry-I	3	3	3	60	24	1.5	20	20	100	40
1.1.4 P	Pharmaceutical Organic Chemistry-I	3	2	4	60	24	3	20	20	100	40
1.1.5 T	Human Anatomy & Physiology-I	3	3	3	60	24	1.5	20	20	100	40
1.1.5 P	Human Anatomy & Physiology-I	3	2	4	60	24	3	20	20	100	40
1.1.6 T	Communication and soft skill development	3	3	3	60	24	1.5	20	20	100	40

Total Credits = 28



## Semester-II

## Class- First Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
1.2.1 T	Pharmaceutics- II	3	3	3	60	24	1.5	20	20	100	40
1.2.1 T	Dosage form design	3	3	3	60	24	1.5	20	20	100	40
1.2.2 P	Dosage form design	3	2	4	60	24	3	20	20	100	40
1.2.3 T	Pharmaceutical Organic Chemistry- II	3	3	3	60	24	1.5	20	20	100	40
1.2.3 P	Pharmaceutical Organic Chemistry- II	3	2	4	60	24	3	20	20	100	40
1.2.4 T	Human Anatomy & Physiology-II	3	3	3	60	24	1.5	20	20	100	40
1.2.4 P	Human Anatomy & Physiology-II	3	2	4	60	24	3	20	20	100	40
1.2.5 T	Pharmacognosy	3	3	3	60	24	1.5	20	20	100	40
1.2.5 P	Pharmacognosy	3	2	4	60	24	3	20	20	100	40
1.2.6 T	Pharmaceutical Analysis I	3	3	3	60	24	1.5	20	20	100	40
1.2.6 P	Pharmaceutical Analysis I	3	2	4	60	24	3	20	20	100	40

Total Credits = 28



## Semester-III

## Class- Second Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
2.3.1 T	Physical Pharmaceutics- I	3	3	3	60	24	1.5	20	20	100	40
2.3.1 P	Physical Pharmaceutics- I	3	2	4	60	24	3	20	20	100	40
2.3.2 T	Pharmaceutical Microbiology	3	3	3	60	24	1.5	20	20	100	40
2.3.2 P	Pharmaceutical Microbiology	3	2	4	60	24	3	20	20	100	40
2.3.3 T	Pharmaceutical Biochemistry	3	3	3	60	24	1.5	20	20	100	40
2.3.3 P	Pharmaceutical Biochemistry	3	2	4	60	24	3	20	20	100	40
2.3.4 T	Pharmaceutical Organic Chemistry-III	3	3	3	60	24	1.5	20	20	100	40
2.3.4 P	Pharmaceutical Organic Chemistry-III	3	2	4	60	24	3	20	20	100	40
2.3.5 T	Pharmacology-I	3	3	3	60	24	1.5	20	20	100	40
2.3.6 T	Pharmacognosy & Phytochemistry - I	3	3	3	60	24	1.5	20	20	100	40
2.3.6 P	Pharmacognosy & Phytochemistry - I	3	2	4	60	24	3	20	20	100	40

Total Credits = 28





## Semester-IV

## Class- Second Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
2.4.1 T	Physical Pharmaceutics-II	3	3	3	60	24	1.5	20	20	100	40
2.4.1 P	Physical Pharmaceutics-II	3	2	4	60	24	3	20	20	100	40
2.4.2 T	Pathophysiology & Clinical Biochemistry	3	3	3	60	24	1.5	20	20	100	40
2.4.2 P	Pathophysiology & Clinical Biochemistry	3	2	4	60	24	3	20	20	100	40
2.4.3 T	Pharmaceutical Organic Chemistry-IV	3	3	3	60	24	1.5	20	20	100	40
2.4.3 P	Pharmaceutical Organic Chemistry-IV	3	2	4	60	24	3	20	20	100	40
2.4.4 T	Pharmaceutical Analysis-II	3	3	3	60	24	1.5	20	20	100	40
2.4.4 P	Pharmaceutical Analysis-II	3	2	4	60	24	3	20	20	100	40
2.4.5 T	Pharmacognosy & Phytochemistry - II	3	3	3	60	24	1.5	20	20	100	40
2.4.5 P	Pharmacognosy & Phytochemistry - II	3	2	4	60	24	3	20	20	100	40
2.4.6 T	Pharmaceutical Engineering	3	3	3	60	24	1.5	20	20	100	40

Total Credits = 28

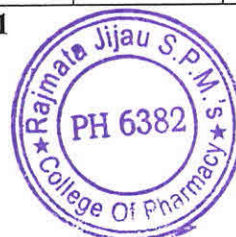


## Semester-V

## Class- Third Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
3.5.1 T	Industrial Pharmacy-I	3	3	3	60	24	1.5	20	20	100	40
3.5.1 P	Industrial Pharmacy-I	3	2	4	60	24	3	20	20	100	40
3.5.2 T	Pharmaceutical Analysis-III	3	3	3	60	24	1.5	20	20	100	40
3.5.2 P	Pharmaceutical Analysis-III	3	2	4	60	24	3	20	20	100	40
3.5.3 T	Medicinal Chemistry-I	3	3	3	60	24	1.5	20	20	100	40
3.5.3 P	Medicinal Chemistry-I	3	2	4	60	24	3	20	20	100	40
3.5.4 T	Pharmacology-II	3	3	3	60	24	1.5	20	20	100	40
3.5.4 P	Pharmacology-II	3	2	4	60	24	3	20	20	100	40
3.5.5 T	Analytical Pharmacognosy & Extraction Technology	3	3	3	60	24	1.5	20	20	100	40
3.5.5 P	Analytical Pharmacognosy & Extraction Technology	3	2	4	60	24	3	20	20	100	40
3.5.6 T	Pharmaceutical Business Management & Disaster Management	3	3	3	60	24	1.5	20	20	100	40
3.5.7 T	Active Pharmaceutical Ingredients Technology	3	3	3	60	24	1.5	20	20	100	40

Total Credits = 31

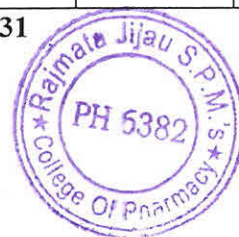


## Semester-VI

## Class- Third Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
3.6.1 T	Industrial Pharmacy-II	3	3	3	60	24	1.5	20	20	100	40
3.6.1 P	Industrial Pharmacy-II	3	2	4	60	24	3	20	20	100	40
3.6.2 T	Pharmaceutical Analysis-IV	3	3	3	60	24	1.5	20	20	100	40
3.6.2 P	Pharmaceutical Analysis-IV	3	2	4	60	24	3	20	20	100	40
3.6.3 T	Medicinal Chemistry-II	3	3	3	60	24	1.5	20	20	100	40
3.6.3 P	Medicinal Chemistry-II	3	2	4	60	24	3	20	20	100	40
3.6.4 T	Pharmacology-III	3	3	3	60	24	1.5	20	20	100	40
3.6.4 P	Pharmacology-III	3	2	4	60	24	3	20	20	100	40
3.6.5 T	Natural Product Chemistry	3	3	3	60	24	1.5	20	20	100	40
3.6.5 P	Natural Product Chemistry	3	2	4	60	24	3	20	20	100	40
3.6.6 T	Bioorganic Chemistry & Drug Design	3	3	3	60	24	1.5	20	20	100	40
3.6.7 T	Pharmaceutical Biotechnology	3	3	3	60	24	1.5	20	20	100	40

Total Credits = 31



## Semester-VII

## Class- Final Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
4.7.1 T	Sterile Products	3	3	3	60	24	1.5	20	20	100	40
4.7.1 P	Sterile Products	3	2	4	60	24	3	20	20	100	40
4.7.2 T	Pharmaceutical Analysis-V	3	3	3	60	24	1.5	20	20	100	40
4.7.2 P	Pharmaceutical Analysis-V	3	2	4	60	24	3	20	20	100	40
4.7.3 T	Medicinal Chemistry-III	3	3	3	60	24	1.5	20	20	100	40
4.7.3 P	Medicinal Chemistry-III	3	2	4	60	24	3	20	20	100	40
4.7.4 T	Pharmacology-IV	3	3	3	60	24	1.5	20	20	100	40
4.7.4 P	Pharmacology-IV	3	2	4	60	24	3	20	20	100	40
4.7.5 T	Natural Drug Technology	3	3	3	60	24	1.5	20	20	100	40
4.7.5 P	Natural Drug Technology	3	2	4	60	24	3	20	20	100	40
4.7.6 T	Bio-pharmaceutics & Pharmacokinetics	3	3	3	60	24	1.5	20	20	100	40
4.7.7 T	Pharmaceutical Jurisprudence	3	3	3	60	24	1.5	20	20	100	40

Total Credits = 31



## Semester-VIII

## Class- Final Yr. B. Pharmacy

Subject Code	Subject	Scheme of Teaching Hrs/Weeks	Scheme of Credit	End Semester Examination			Internal Examination			Total Maximum Marks for subject	Minimum marks for passing subject
				Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks	Continuous Assessment marks		
4.8.1 T	Advanced Drug Delivery System	3	3	3	60	24	1.5	20	20	100	40
4.8.1 P	Advanced Drug Delivery System	3	2	4	60	24	3	20	20	100	40
4.8.2 T	Cosmetic science	3	3	3	60	24	1.5	20	20	100	40
4.8.2 P	Cosmetic science	3	2	4	60	24	3	20	20	100	40
4.8.3 T	Pharmaceutical Analysis-VI	3	3	3	60	24	1.5	20	20	100	40
4.8.3 P	Pharmaceutical Analysis-VI	3	2	4	60	24	3	20	20	100	40
4.8.4 T	Medicinal Chemistry-IV	3	3	3	60	24	1.5	20	20	100	40
4.8.4 P	Medicinal Chemistry-IV	3	2	4	60	24	3	20	20	100	40
4.8.5 T	Pharmacology-V(Including Biostatistics)	3	3	3	60	24	1.5	20	20	100	40
4.8.5 P	Pharmacology-V(Including Biostatistics)	3	2	4	60	24	3	20	20	100	40
4.8.6 T	Natural Products: Commerce, Industry & Regulations	3	3	3	60	24	1.5	20	20	100	40
4.8.7 T	Quality Assurance Tech.	3	3	3	60	24	1	20	20	100	40

Total Credits = 31



*[Signature]*  
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 Rajmata Jijau S.P.M.'s  
 COLLEGE OF PHARMACY  
 Rajmata Jijau S.P.M.'s-412 105.



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHPO13150



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Treasurer

Dr. Kishor S. Jain  
Principal

# Course Structure 2013 Pattern

**UNIVERSITY OF PUNE**

**FACULTY OF PHARMACEUTICAL SCIENCES**



**COURSE STRUCTURE & SYLLABI**  
**BACHELOR OF PHARMACY (B. Pharm.) COURSE**  
**(EFFECTIVE FROM ACADEMIC YEAR 2013-14)**



<b>Course Title:</b>	Bachelor of Pharmacy
<b>Abbreviation:</b>	B. Pharm.
<b>Medium of Instruction And Examination:</b>	English
<b>Type of Course:</b>	A four year degree course divided into eight Semesters.
<b>Pattern:</b>	Semester.
<b>Number of Years and Semester:</b>	Four Years divided into eight semesters with two semesters per year.
<b>Nomenclature of Semesters :</b>	Semester-I & Semester-II First Year B. Pharm. Semester-III & Semester-IV Second Year B. Pharm. Semester-V & Semester-VI Third Year B. Pharm. Semester-VII & Semester-VIII Final Year B. Pharm.
<b>Award of the Degree :</b>	Degree will be awarded for those passing in all the eight semesters as per the rules and regulations.
<b>Duration of Semester :</b>	Each Semester will be normally of 15 weeks duration for class room teaching/ lecture and internal evaluation.
<b>Definitions:</b>	1. University means University of Pune until and otherwise specified. 2. The college/Institute is any college conducting B. Pharmacy course and affiliated to University of





Pune.

3. State Govt.: Govt. of Maharashtra

4. Admission Authority: An authority responsible for effecting admissions to B. Pharm course as prescribed by Govt. of Maharashtra

5. DTE – Directorate of Technical Education, Maharashtra State.

6. AICTE – All India Council for Technical Education, New Delhi



## **R.1. AIM & OBJECTIVES OF THE COURSE**

### **AIM:**

The Pharmacy graduates are required to learn and acquire adequate knowledge, necessary skills to practice the profession of pharmacy. The graduate should have thorough knowledge of synthesis & analysis of medicinal agents, their mode and mechanism of action, drug interactions, patient counselling and adequate technical information to be exchanged with the physician and other health professionals. The graduates are required to acquire in depth knowledge of formulation, quality assurance and storage of various pharmaceutical dosage forms including herbal medicines. The graduates should also understand the concept of community pharmacy and be able to participate in health care programmes of Government and private sector. They are also required to detail the physicians and market the medicinal agents for diagnosis, prevention and therapeutic purposes. The graduate pharmacist should also act as bridge between the Physician and Patients for achieving better health of community.

### **OBJECTIVES:**

The following objectives of the course should be achieved by acquiring an in-depth knowledge & thorough understanding, necessary skills and developing the right attitude. Therefore they are categorized into following heads.

#### **a. Knowledge and Understanding**

The graduates should acquire the following during their B. Pharm. Course.

1. Adequate knowledge and scientific information regarding basic principles of Pharmaceutical & Medicinal Chemistry, Pharmaceutics including Cosmeticology, Pharmacology, Pharmacognosy including herbal medicines.
2. Adequate knowledge of practical aspects of
  - Synthesis of APIs & its intermediates and analysis of various pharmaceutical dosage forms



- Formulation developments & quality assurance of various pharmaceutical dosage forms including those of herbal origin as per standards of official books, WHO and other regulatory agencies like USFDA, MHRA, UK etc.
- Pharmacological screening and biological standardization and *in-vivo* drug interactions.
- Preparation & analysis of suitable plants material/extracts of medicinal importance for various herbal formulations.
- Clinical studies, patient counseling leading to physical and social well being of the patients.
- Product detailing, marketing, distribution and selling of pharmaceutical products.

**b. Skills:**

A graduate should be able to demonstrate following skills necessary for practice of a Pharmacy

- Able to synthesize, purify, identify and analyze medicinal agents.
- Able to formulate, store, dispense, analyze the prescriptions and manufacture the pharmaceutical products.
- Able to learn and apply the quality assurance principles in regulatory and ethical aspects
- Able to extract, purify, identify and understand the therapeutic value of herbal/crude/natural products
- Able to screen various medicinal agents using animal models for pharmacological activity.

**c. Attitudes:**

A graduate should develop the following attitudes during the course.

- Willing to apply the current knowledge of Pharmacy in the best interest of the patients and the community.
- Maintain high standards of professional ethics in discharging professional obligations.
- Continuously upgrade professional information and be conversant with latest advances in the field of pharmacy to serve community better.



- Willing to participate in continuing education programmes PCI/AICTE/ University of Pune to upgrade the knowledge and professional skills.
- To help and participate in the implementation of National Health Programmes.

## **R.2. ELIGIBILITY CRITERIA AND ADMISSION PROCEDURE**

**A. In order to secure admission to Semester –I of the Four year Degree Course in Pharmacy, the candidate should fulfil the following eligibility criteria;**

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics/Biology **AND** Secured minimum **45 % marks** (minimum **40 % marks** in case of candidates of Backward class categories and Physically Handicapped belonging only to Maharashtra State) in **the subjects Physics, Chemistry and Biology/Mathematics** added together (Maximum of marks obtained in Biology/Mathematics shall be considered for the purpose of addition)

**OR**

2. Passed the Diploma in Pharmacy examination from an institution in Maharashtra or outside Maharashtra affiliated to Maharashtra State Board of Technical Education (MSBTE) or any other examining authority approved by Pharmacy Council of India with minimum **50 % marks** in aggregate after (10+2) Science i.e. HSC or its equivalent examination.

**B. Eligibility Criteria for Admission at the entry level of Semester-III. (i.e. the first semester of Second Year B. Pharm.)** The candidate who has passed the final examination leading to the Diploma in Pharmacy conducted by the Board of Technical Education,



Maharashtra State or equivalent examination from the institute approved by the Pharmacy Council of India and with a minimum **50%** at part-II examination for the Diploma in Pharmacy Course (**45%** for backward class candidates from Maharashtra) as per ER-91 (i.e. Post H.S.C. two year Diploma Course) be held eligible for admission to semester-III.

**NOTE:** In case of eligibility criterion decided by the Govt. of Maharashtra differs from above, university authorities shall decide the eligibility criterion from time to time.

### **R.3. SCHEME OF EXAMINATION:**

**R.3.1. Examination conducting authority:** University of Pune, Pune.

**R.3.2. Regular and Supplementary Examinations and time:** (Tentative schedule) The University will decide exact schedule on the basis of prevailing situation.

<b>Semester</b>	<b>Regular Examination</b>	<b>Supplementary Examination</b>
I, III, V & VII	(November/December)	(April/May)
II, IV, VI & VIII	(April/May)	(November/December)

Duration of Examination, Marks etc See Examination scheme at *Annexure I*

### **R.3.3. Criteria for admitting the candidate for examinations irrespective of regular or supplementary examinations:**

- Candidate must have been admitted to the respective Semester as per the criteria for continuation into the respective Semesters given in R-4 and has kept the term for the Semester for which he is examined.
- The candidate must submit prescribed application form along with fees.



- Candidates must appear for the examination at the place and time as decided by the admitting Institute/ the University as the case may be.
- Candidate who has failed in a particular Semester or has ATKT will be allowed to appear for the same examination on a new application being forwarded and a fresh fee paid.

*Clarifications:*

- Candidate who has ATKT will appear for examinations in only those subject heads in which the candidate has failed except stated below.
- The candidate who has passed in all the subjects but failed due to not getting overall 50% marks will be allowed to appear in any number of subject heads (theory) the candidate desires.
- For all the remaining cases, the candidate has to appear for examination in all those subject heads in which the candidate has failed.

**R.3.4. Sessional Examinations**

- Each Semester will consist of a minimum of 15 weeks instructions.  
\*i.e.  $15 \times 6 = 90$  instructional days (minimum instructional days)
- 75% attendance for both theory and practical classes separately shall be mandatory to appear for sessional examination.
- Conducting authority shall be Institutes where candidate is admitted.

*Number of Sessional Examination:*

- There will be a minimum of one sessional examination of 30 marks conducted in each semester after minimum eight weeks of teaching from the date of commencement of that semester in each of the theory subjects during each semester.
- One Sessional Examination will be conducted as per the examination scheme (See Annexure) for each semester. The students who will secure less than 40% mark in the Sessional Examination or unable to appear for the scheduled Sessional Examination



may be permitted for the Sessional Examination in the same semester only if approved by institutional examination committee and paying fees as prescribed by the institution.

- Practical sessional examination of 30 marks will be based on internal assessment of practical, day to day attendance, viva and laboratory record. The distribution of marks for practical examination will be as follows –

#### **Scheme for Practical Sessional Examination**

Sr. No.	Head	Marks distribution
1	Performance	15
2	Synopsis & Viva	09
3	Lab Record and Attendance	06
	Total Marks	30
	Duration	03 Hrs.

- Internal assessment of practicals will be based on day to day attendance, viva, laboratory record, etc.
- The institutional examination committee shall consist of Principal (Chairman), & four teachers nominated by the Principal.
  - Theory sessional examination of 30 marks will be conducted after completion of at least two thirds syllabus of the semester.
  - The distribution of marks for theory sessional examination will be as given below-

Sr. No.	Head	Marks distribution
Q. 1	2marks X 5 questions (out of seven)	= 10 marks
Q. 2	5marks X 2 questions (out of three)	= 10 marks
Q. 3	10marks X 1 questions (out of two)	<u>= 10 marks</u>
	Total	= 30 marks

*Time Schedule:*

**The time schedule for theory sessional examination will be 1 hour 30 minutes.**

- The Retest/ Improvement test/ or supplementary test for the Sessional Examinations will be allowed for the failed candidates in the University examination, if he/she is appearing for the University exam of that subject head.



- The Retest/ Improvement test/ or supplementary test shall be carried by the respective institution and the marks obtained by the candidate shall be forwarded to the University.
- The institute conducting the course must submit the Sessional Examination marks of the respective semester to the Controller of Examinations in soft copy and print before the commencement of theory or practical examination whichever is later.
- Scaling down technique will be implemented for the periodic test.

**R.4.:**

Continuation into the subsequent semesters after the entry level semesters. The admitting authority will be the individual institutes where the candidate has been admitted into the course, and the continuation will be as per the criteria decided by the University for each semester.

The following criteria are applicable to all the candidates for continuation.

**R.4.1.** A candidate, to be eligible for the Degree will be required to pass examinations, as under:-

<b>First year B. Pharm.</b>	Semester-I & Semester-II
<b>Second year B. Pharm.</b>	Semester-III & Semester-IV
<b>Third year B. Pharm.</b>	Semester-V & Semester-VI
<b>Fourth year B. Pharm.</b>	Semester-VII & Semester-VIII

**R.4.2.**

No candidate will be admitted to any examination unless he/she keeps term at a College affiliated to the University, and produces, from the Principal of the College, testimonials of: Satisfactory attendance at the theory, Practical and term work classes as prescribed.

**R.4.3. Promotion from odd semester to even semester in the same academic year**

- A Candidate who fails in Semester - I examination of First Year B. Pharm. will be allowed to keep term for his/her Semester –II Examination, of First Year B. Pharm.





- A Candidate who fails in Semester – III examination of Second Year B. Pharm. will be allowed to keep term for his/ her Semester – IV Examination of Second Year B. Pharm.
- A Candidate who fails in Semester – V examination of Third Year B. Pharm. will be allowed to keep term for his/her Semester – VI Examination of Third Year B. Pharm.
- A Candidate who fails in Semester – VII examination of Fourth Year B. Pharm. will be allowed to keep term for his Semester – VIII Examination of Fourth Year B. Pharm.

#### **R.4.4. Promotion to subsequent academic year-**

- A candidate who fails in more than 7 heads (Theory & practical) of total number of subjects taken together at Semester I and Semester II /Semester III & Semester IV course examination will not be permitted to keep terms in the higher class viz. Semester III / Semester V of B. Pharm. Course examination respectively.
- A candidate who fails in more than 8 heads (Theory & practical) of total number of subjects taken together at Semester V and Semester VI course examination will not be permitted to keep terms in the higher class viz. Semester VII of B. Pharm. Course examination.

#### **R.4.5. Clarification of R.4.3. and R.4.4.**

1. No candidate will be admitted to the Semester III course unless he/she passes his/her Semester I and Semester II examination of B. Pharm.

**OR**

Fails in not more than 7 heads (Theory and Practical) at the Semester I and Semester II examination of B.Pharm.

2. No candidate will be admitted to the Semester V course unless he/she passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B.Pharm.



**OR**

passes his/her Semester I and Semester II examination of B. Pharm. and fails in not more than 7 of total number of heads (Theory and Practical) at the Semester III & Semester IV Examinations of B. Pharm.

3. No candidate will be admitted to the Semester VII course of B. Pharm. unless he/she Passes his/her Semester I & Semester II., Semester III & Semester IV., Semester V & Semester VI Examinations of B. Pharm. examinations,

**OR**

passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B. Pharm. and fails in not more than 8 of total number of heads (Theory and Practical) at the Semester V & Semester VI Examinations of B. Pharm.

**R.4.6. Allowed to Keep Terms (ATKT) rules.**

Number of subjects: ATKT will be awarded to those who have failed in 1/3 subject head (33%) as described in table **given** below

At the end of academic Year		Total subject heads at the end of academic year.	33 % of total subjects (To nearest
First	Theory	06+06=12	4
	Practical	05+05=10	3
Second	Theory	06+06=12	4
	Practical	05+05=10	3
Third	Theory	07+07=14	5
	Practical	05+05=10	3

**R.5. Marks, Criteria for passing and other conditions.**

**R.5.1. Passing criteria for each subject head:**

Maximum marks for each subject head and the minimum marks for passing in each of the subject head –See Examination scheme given in *Annexure I*.

No separate passing is required for sessional examination and if the candidate



remains absent for the test, the candidate will be just treated as not appeared for



the test securing zero marks. What so ever mark obtained by the candidate will be added to the marks obtained by the candidate in University examination as shown in scheme of examination given in *Annexure I*.

In no circumstance previous marks will be considered. If a candidate's application form for reappearing in the examination in a subject head is accepted, and the candidate appear in the examination (Sessional examination & Semester examination) fresh marks will be considered.

### **R.5.2. Passing of the semester.**

Candidate will be considered as passed the semester only when the candidate passes in the entire subject heads and obtains overall a minimum of 50% of the total aggregate marks prescribed for the semester see Annexure.

### **R.5.3. Award of the degree and Class.**

Class will be awarded for each semester of B. Pharm course.

1. Candidates obtaining 70% or more of Grand Total: First Class with Distinction.
2. Candidates obtaining 60% or more but less than 70 % of Grand Total; First Class.
3. Candidates obtaining 50 % or more but less than 60% of Grand Total: Second Class.

Class of Bachelors of Pharmacy Degree shall be awarded to the candidate based on his/her marks obtained at Sem – V to Sem- VIII examination taken together.

The subject or subjects in whom a successful candidate may have secured distinction will be shown on his mark-sheet. In order to obtain distinction in a subject at an examination, the candidate should pass the examination in the first attempt and should obtain 70% of the full marks in that subject. Only those candidates who have passed an examination in one attempt will be eligible for any prize or scholarship to be awarded for that examination.

Degree will be awarded to the candidates who have passed all the eight semesters. Class will be awarded on the basis of combined marks at the Semester-V to Semester VIII.



A student will be allowed to improve his/her class at B. Pharm. by reappearing for the subjects (maximum 3 theory subjects of that examination) from V to VIII Semesters of B. Pharm. Course as per prevalent policy of University.

#### **R.5.4. With holding of results.**

A candidate's result will be withheld under the following situations and of the respective Semester.

1. Withholding of result for not fulfilling passing criteria for advancement to subsequent classes-

Result of Semester IV will be with held if the candidate has not passed Semester-I and Semester II.

Result of Semester VI will be with held if the candidate has not passed Semester-III and Semester – IV.

Result of Semester VIII will be with held if the candidate has not passed Semester- V & Semester-VI.

2. Withholding of result for failure to comply University rules-

The result of candidate shall be withheld if the candidate is found guilty in malpractices during examinations and any other failure to comply University rules and regulation as confirmed by appropriate body of University.

#### **R.5.5. Exemption to appear for the examination:**

If a candidate has got ATKT, the candidate will be exempted for appearing the examination for those subject heads in which the candidate has passed.

Any candidate who has passed in any subject head is exempted for appearing the examination in that subject head.



Notwithstanding above if a candidate has passed in all the subjects but failed due to not getting 50% of the aggregate marks may appear for the examination in any three theory subject heads so as to get over all 50% marks. In such cases, Higher marks obtained in the subject heads, the candidate has appeared for the fresh examination and the marks obtained in the previous examination of the same subject will only be considered irrespective of the examination and fresh result will be declared. For example if the candidate gets over all 50% marks but fails in one of the subject heads in which the candidate had passed earlier, the candidate will be treated as passed in that subject head as per previous examination and result will be declared as per the rules applicable to the passed candidates. The marks in which the candidate has not appeared for the examination will be carried forward.

#### **R.5.6. Industrial Training**

Every candidate shall be required to work for at least four weeks in a Pharmaceutical Industry it includes Production unit, Q. C department, Q. A department, analytical laboratory, chemical manufacturing unit, pharmaceutical R & D, hospital (Clinical Pharmacy), clinical research organization and wholesale drug store etc after the Semester- IV of the course of study, and shall submit satisfactory report of such work to the head of the institute. The candidate should also submit one copy to the University for the Award of Degree along with convocation form. The candidate may undergo practical training in parts, each constituting not less than two weeks.

#### **R.5.7.**

**The pattern for University theory examination question paper shall be as given below:**

Scheme for theory Examination: - Each Theory paper should be divided in 2 sections which should be attempted in separate answer sheet.



Sr. No.	Head	Marks distribution
<b>Section – I</b>		
Q.1.	Long answers question ( word limit 350 to 400 words)	10 marks (10 mark x 1 Qs, out of 2 Qs.)
Q.2	Small answers questions – 3 marks ( word limit 75 to 100 words)	15 marks (3 mark x 5 Qs, out of 7 Qs.)
Q.3	Short answers questions – 5 marks ( word limit 125 to 150 words)	10 marks (5 mark x 2 Qs, out of 4 Qs.)
<b>Section – II</b>		
Q.4	Long answers question ( word limit 350 to 400 words)	10 marks (10 mark x 1 Qs, out of 2 Qs.)
Q.5	Small answers questions – 3 marks ( word limit 75 to 100 words)	15 marks (3 mark x 5 Qs, out of 7 Qs)
Q.6	Short answers questions – 5 marks ( word limit 125 to 150 words)	10 marks (5 mark x 2 Qs, out of 4 Qs.)
	<b>Total maximum marks of section I and</b>	<b>70 marks</b>
	<b>Duration of examination</b>	<b>3 Hrs.</b>

**Note:**

1. There shall be no word limit set for long answer questions.
2. Paper setters should cover entire syllabus while setting the question paper.
3. The detailed guidelines with respect these changes shall be given to all paper setters by the university.

**Scheme for University Practical Examination**

Sr. No.	Head	Marks distribution
1	Synopsis	10
2	Major experiment	30
3	Minor experiment	20
4	Viva	10
	Total Marks	70
	Duration	04 Hrs.



## **R-6: ENVIRONMENTAL SCIENCES**

An additional course in environmental sciences shall be conducted as per following guidelines.

1. A course in Environmental Awareness with duration of six months (30 lectures of one hour duration & field work of 10 hours duration.) shall be introduced at the semester III of second year of degree course B.Pharm as a compulsory course.
2. An additional course fee of Rs. 1000 per student shall be charged to meet the expenditure on the conduct of the course.
3. A course Coordinator shall be appointed to organize teaching and evaluation by the Principal.
4. Qualifications of a Teacher.

University approved teacher (minimum Asst. Prof.) or expert in Environmental Sciences possessing substantial knowledge to teach a course on environmental studies shall be eligible to teach the course. Principal of the College shall be authorized to determine the eligibility of the teacher on environmental studies

5. This course is to be introduced from the second year B. Pharm with 40 clock hours teaching including field visit.
6. The college on behalf of the University shall conduct the examination of this subject immediately before or after Semester examinations of S.Y./T.Y./Final Year B.Pharm.
7. The student should clear this subject before passing the Final Year B. Pharm examination.
8. A candidate has to pass in this course in order to obtain degree certificate. If the candidate passes in all subjects of degree course but fails in this paper, he will not be eligible to obtain degree certificate.
9. Examination: the College shall organize the evaluation as per pattern suggested below.

The Principal shall submit the result sheet to the Controller of Examination, University of Pune on or before the end of the final year University Examinations of B. Pharm. course. The result shall reflect on the final Mark statement of each student. The results of University examination of the student who fail to get





Minimum 'C' Grade in this course shall be kept in reserve till the concerned student complete the course and secure to require Minimum C Grade.

The question paper shall include the questions as under

- A. Multiple choice questions :50 Marks
- B. Essay type questions :25 Marks
- C. Field works :25 Marks

Total: 100 Marks Passing Marks: 40 Marks.

Following Grades shall be awarded to the candidates based on their marks obtained.

**Grade-O:** above 75    **Grade-A:** 61 to 75    **Grade-B:** 51 to 60    **Grade-C:** 40 to 50

#### **R-7: Rules for Carry Forward**

This revised curriculum (including regulations, structure and syllabi) will be in force from academic year 2013-14 and onwards for First Year B. Pharm, for academic year 2014-15 onwards for Second Year B. Pharm., for academic year 2015-16 and onwards for Third Year B. Pharm., and for academic year 2016-17 and onwards for Final Year B. Pharm.

1. The students who were admitted to First Year B. Pharm. of 2008 pattern during the academic year 2012-13 or before & would fail or have failed in the First Year B. Pharm. of 2008 pattern examination will have to take admission to Semester-III of Second Year B. Pharm. of 2013 pattern in academic year 2014-15 or onwards, provided that
  - a. They have passed in all subjects of F. Y. B. Pharm. of 2008 pattern
  - b. These students will have to additionally pass following subjects with minimum 40 marks in theory and 45 marks in practicals



- i. Dosage Form Design of Semester II of First year B. Pharm. 2013 pattern
- ii. Pharmaceutical Analysis-I of Semester II of First Year B. Pharm. 2013 pattern

Such students will have exemption for the following subjects:

- i. Pharmaceutical Engineering of Semester- IV of Second Year B. Pharm. 2013 pattern

2. The students who will be admitted to Second Year B. Pharm. of 2008 pattern during academic year 2013-14 and who will fail the Second Year B. Pharm. 2008 pattern examination will have to take admission to Semester- V of T. Y. B. Pharm. of 2013 pattern in academic year 2015-16 or onwards, provided that

- a. They have passed all subjects of F. Y. B. Pharm. of 2008 syllabus.
- b. They have passed in at least 5 subjects of S. Y. B. Pharmacy of 2008 syllabus i.e. their result for S. Y. B. Pharm. of 2008 pattern is either Pass or Fail with A. T. K. T.

Such students will have to pass in all the subjects of S. Y. B. Pharm. 2008 pattern before taking admission to Semester- VII of Final Year B. Pharm. 2013 pattern.

3. The students who will be admitted to Third Year B. Pharm. of 2008 pattern during the academic year 2014-15 and who would fail in T. Y. B. Pharm. 2008 pattern examination will have to take admission to Semester- VII of Final year B. Pharm. of 2013 pattern, provided that0020

- a. They have passed all subjects of S. Y. B. Pharm. of 2008 pattern



- b. They have passed in at least 5 subjects of T. Y. B. Pharm. of 2008 pattern i.  
e. their result for T. Y. B. Pharm. 2008 pattern is Pass or Fail with A. T. K.  
T.

4. The students who will be admitted to Direct S. Y. B. Pharm. of 2008 pattern through lateral entry in academic year 2013-14 will have to additionally pass separately with minimum 40 marks in theory and 45 marks in practical in following subjects

- i. Dosage Form Design of semester- II of F. Y. B. Pharm. of 2013 patten.



**Annexure I**

Scheme of Examination for eight semesters of B. Pharm. Course Name and number of heads of passing, number of paper, duration of examination, maximum marks, minimum marks for passing, Sessional Examination, duration, maximum marks.

**Semester-I****Class- First Yr. B. Pharmacy**

Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
1.1.1 T	Pharmaceutics- I	3	70	28	1.5	30	100	40
1.1.1 P	Pharmaceutics- I	4	70	32	3	30	100	40
1.1.2 T	Modern Dispensing Practices	3	70	28	1.5	30	100	40
1.1.2 P	Modern Dispensing Practices	4	70	32	3	30	100	40
1.1.3 T	Pharmaceutical Inorganic Chemistry	3	70	28	1.5	30	100	40
1.1.3 P	Pharmaceutical Inorganic Chemistry	4	70	32	3	30	100	40
1.1.4 T	Pharmaceutical Organic Chemistry-I	3	70	28	1.5	30	100	40
1.1.4 P	Pharmaceutical Organic Chemistry-I	4	70	32	3	30	100	40
1.1.5 T	Human Anatomy & Physiology-I	3	70	28	1.5	30	100	40
1.1.5 P	Human Anatomy & Physiology-I	4	70	32	3	30	100	40
1.1.6 T	Communication and soft skill development	3	70	28	1.5	30	100	40



## Semester-II

## Class- First Yr. B. Pharmacy

Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
1.2.1 T	Pharmaceutics- II	3	70	28	1.5	30	100	40
1.2.1 T	Dosage form design	3	70	28	1.5	30	100	40
1.2.2 P	Dosage form design	4	70	32	3	30	100	40
1.2.3 T	Pharmaceutical Organic Chemistry-II	3	70	28	1.5	30	100	40
1.2.3 P	Pharmaceutical Organic Chemistry-II	4	70	32	3	30	100	40
1.2.4 T	Human Anatomy & Physiology-II	3	70	28	1.5	30	100	40
1.2.4 P	Human Anatomy & Physiology-II	4	70	32	3	30	100	40
1.2.5 T	Pharmacognosy	3	70	28	1.5	30	100	40
1.2.5 P	Pharmacognosy	4	70	32	3	30	100	40
1.2.6 T	Pharmaceutical Analysis I	3	70	28	1.5	30	100	40
1.2.6 P	Pharmaceutical Analysis I	4	70	32	3	30	100	40



## Semester-III

## Class- Second Yr. B. Pharmacy

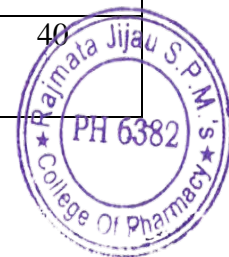
Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
2.3.1 T	Physical Pharmaceutics- I	3	70	28	1.5	30	100	40
2.3.1 P	Physical Pharmaceutics- I	4	70	32	3	30	100	40
2.3.2 T	Pharmaceutical Microbiology	3	70	28	1.5	30	100	40
2.3.2 P	Pharmaceutical Microbiology	4	70	32	3	30	100	40
2.3.3 T	Pharmaceutical Biochemistry	3	70	28	1.5	30	100	40
2.3.3 P	Pharmaceutical Biochemistry	4	70	32	3	30	100	40
2.3.4 T	Pharmaceutical Organic Chemistry-III	3	70	28	1.5	30	100	40
2.3.4 P	Pharmaceutical Organic Chemistry-III	4	70	32	3	30	100	40
2.3.5 T	Pharmacology-I	3	70	28	1.5	30	100	40
2.3.6 T	Pharmacognosy & Phytochemistry - I	3	70	28	1.5	30	100	40
2.3.6 P	Pharmacognosy & Phytochemistry - I	4	70	32	3	30	100	40



## Semester-IV

## Class- Second Yr. B. Pharmacy

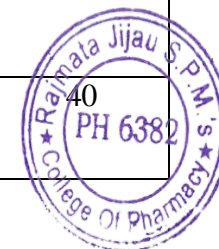
Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
2.4.1 T	Physical Pharmaceutics- II	3	70	28	1.5	30	100	40
2.4.1 P	Physical Pharmaceutics- II	4	70	32	3	30	100	40
2.4.2 T	Pathophysiology & Clinical Biochemistry	3	70	28	1.5	30	100	40
2.4.2 P	Pathophysiology & Clinical Biochemistry	4	70	32	3	30	100	40
2.4.3 T	Pharmaceutical Organic Chemistry-IV	3	70	28	1.5	30	100	40
2.4.3 P	Pharmaceutical Organic Chemistry-IV	4	70	32	3	30	100	40
2.4.4 T	Pharmaceutical Analysis-II	3	70	28	1.5	30	100	40
2.4.4 P	Pharmaceutical Analysis-II	4	70	32	3	30	100	40
2.4.5 T	Pharmacognosy & Phytochemistry - II	3	70	28	1.5	30	100	40
2.4.5 P	Pharmacognosy & Phytochemistry - II	4	70	32	3	30	100	40
2.4.6 T	Pharmaceutical Engineering	3	70	28	1.5	30	100	40



## Semester-V

## Class- Third Yr. B. Pharmacy

Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
3.5.1 T	Industrial Pharmacy-I	3	70	28	1.5	30	100	40
3.5.1 P	Industrial Pharmacy-I	4	70	32	3	30	100	40
3.5.2 T	Pharmaceutical Analysis-III	3	70	28	1.5	30	100	40
3.5.2 P	Pharmaceutical Analysis-III	4	70	32	3	30	100	40
3.5.3 T	Medicinal Chemistry-I	3	70	28	1.5	30	100	40
3.5.3 P	Medicinal Chemistry-I	4	70	32	3	30	100	40
3.5.4 T	Pharmacology-II	3	70	28	1.5	30	100	40
3.5.4 P	Pharmacology-II	4	70	32	3	30	100	40
3.5.5 T	Analytical Pharmacognosy & Extraction Technology	3	70	28	1.5	30	100	40
3.5.5 P	Analytical Pharmacognosy & Extraction Technology	4	70	32	3	30	100	40
3.5.6 T	Pharmaceutical Business Management & Disaster Management	3	70	28	1.5	30	100	40
3.5.7 T	Active Pharmaceutical Ingredients Technology	3	70	28	1.5	30	100	40

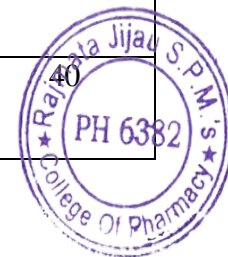




## Semester-VI

## Class- Third Yr. B. Pharmacy

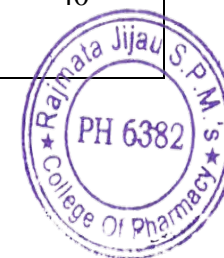
Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
3.6.1 T	Industrial Pharmacy-II	3	70	28	1.5	30	100	40
3.6.1 P	Industrial Pharmacy-II	4	70	32	3	30	100	40
3.6.2 T	Pharmaceutical Analysis-IV	3	70	28	1.5	30	100	40
3.6.2 P	Pharmaceutical Analysis-IV	4	70	32	3	30	100	40
3.6.3 T	Medicinal Chemistry-II	3	70	28	1.5	30	100	40
3.6.3 P	Medicinal Chemistry-II	4	70	32	3	30	100	40
3.6.4 T	Pharmacology-III	3	70	28	1.5	30	100	40
3.6.4 P	Pharmacology-III	4	70	32	3	30	100	40
3.6.5 T	Natural Product Chemistry	3	70	28	1.5	30	100	40
3.6.5 P	Natural Product Chemistry	4	70	32	3	30	100	40
3.6.6 T	Bioorganic Chemistry & Drug Design	3	70	28	1.5	30	100	40
3.6.7 T	Pharmaceutical Biotechnology	3	70	28	1.5	30	100	40



## Semester-VII

## Class- Final Yr. B. Pharmacy

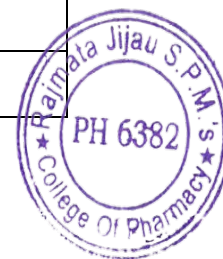
Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
4.7.1 T	Sterile Products	3	70	28	1.5	30	100	40
4.7.1 P	Sterile Products	4	70	32	3	30	100	40
4.7.2 T	Pharmaceutical Analysis-V	3	70	28	1.5	30	100	40
4.7.2 P	Pharmaceutical Analysis-V	4	70	32	3	30	100	40
4.7.3 T	Medicinal Chemistry-III	3	70	28	1.5	30	100	40
4.7.3 P	Medicinal Chemistry-III	4	70	32	3	30	100	40
4.7.4 T	Pharmacology-IV	3	70	28	1.5	30	100	40
4.7.4 P	Pharmacology-IV	4	70	32	3	30	100	40
4.7.5 T	Natural Drug Technology	3	70	28	1.5	30	100	40
4.7.5 P	Natural Drug Technology	4	70	32	3	30	100	40
4.7.6 T	Bio-pharmaceutics & Pharmacokinetics	3	70	28	1.5	30	100	40
4.7.7 T	Pharmaceutical Jurisprudence	3	70	28	1.5	30	100	40



## Semester-VIII

## Class- Final Yr. B. Pharmacy

Subject Code	Subject	Semester Examination			Sessional Examination		Total Maximum Marks for subject	Minimum marks for passing subject
		Duration (Hours)	Maximum marks	Min for passing	Duration (Hours)	Maximum marks		
4.8.1 T	Advanced Drug Delivery System	3	70	28	1.5	30	100	40
4.8.1 P	Advanced Drug Delivery System	4	70	32	3	30	100	40
4.8.2 T	Cosmetic science	3	70	28	1.5	30	100	40
4.8.2 P	Cosmetic science	4	70	32	3	30	100	40
4.8.3 T	Pharmaceutical Analysis-VI	3	70	28	1.5	30	100	40
4.8.3 P	Pharmaceutical Analysis-V I	4	70	32	3	30	100	40
4.8.4 T	Medicinal Chemistry-IV	3	70	28	1.5	30	100	40
4.8.4 P	Medicinal Chemistry-IV	4	70	32	3	30	100	40
4.8.5 T	Pharmacology-V(Including Biostatistics)	3	70	28	1.5	30	100	40
4.8.5 P	Pharmacology-V(Including Biostatistics)	4	70	32	3	30	100	40
4.8.6 T	Natural Products: Commerce, Industry & Regulations	3	70	28	1.5	30	100	40
4.8.7 T	Quality Assurance Tech.	3	70	28	1	30	100	40



**Following will be the course structure of First Semester, Second Semester, Third Semester, Fourth Semester, Fifth Semester, Sixth Semester, Seventh Semester, and Eighth Semester.**

**Semester-I      First Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
1.1.1 T	Pharmaceutics- I	3
1.1.1 P	Pharmaceutics- I	3
1.1.2 T	Modern Dispensing Practices	3
1.1.2 P	Modern Dispensing Practices	3
1.1.3 T	Pharmaceutical Inorganic Chemistry	3
1.1.3 P	Pharmaceutical Inorganic Chemistry	3
1.1.4 T	Pharmaceutical Organic Chemistry-I	3
1.1.4 P	Pharmaceutical Organic Chemistry-I	3
1.1.5 T	Human Anatomy & Physiology-I	3
1.1.5 P	Human Anatomy & Physiology-I	3
1.1.6 T	Communication and soft skill development	3

**Semester-II      First Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
1.2.1 T	Pharmaceutics- II	3
1.2.1 T	Dosage form design	3
1.2.2 P	Dosage form design	3
1.2.3 T	Pharmaceutical Organic Chemistry-II	3
1.2.3 P	Pharmaceutical Organic Chemistry-II	3
1.2.4 T	Human Anatomy & Physiology-II	3
1.2.4 P	Human Anatomy & Physiology-II	3
1.2.5 T	Pharmacognosy	3
1.2.5 P	Pharmacognosy	3
1.2.6 T	Pharmaceutical Analysis I	3
1.2.6 P	Pharmaceutical Analysis I	3



## Semester-III

## Second Yr. B. Pharmacy

Sr. no.	Subject	Hours per week
2.3.1 T	Physical Pharmaceutics- I	3
2.3.1 P	Physical Pharmaceutics- I	3
2.3.2 T	Pharmaceutical Microbiology	3
2.3.2 P	Pharmaceutical Microbiology	3
2.3.3 T	Pharmaceutical Biochemistry	3
2.3.3 P	Pharmaceutical Biochemistry	3
2.3.4 T	Pharmaceutical Organic Chemistry-III	3
2.3.4 P	Pharmaceutical Organic Chemistry-III	3
2.3.5 T	Pharmacology-I	3
2.3.6 T	Pharmacognosy & Phytochemistry - I	3
2.3.6 P	Pharmacognosy & Phytochemistry - I	3
2.3.7 T	Environmental Science	2

## Semester-IV

## Second Yr. B. Pharmacy

Sr. no.	Subject	Hours per week
2.4.1 T	Physical Pharmaceutics- II	3
2.4.1 P	Physical Pharmaceutics- II	3
2.4.2 T	Pathophysiology & Clinical Biochemistry	3
2.4.2 P	Pathophysiology & Clinical Biochemistry	3
2.4.3 T	Pharmaceutical Organic Chemistry-IV	3
2.4.3 P	Pharmaceutical Organic Chemistry-IV	3
2.4.4 T	Pharmaceutical Analysis-II	3
2.4.4 P	Pharmaceutical Analysis-II	3
2.4.5 T	Pharmacognosy & Phytochemistry - II	3
2.4.5 P	Pharmacognosy & Phytochemistry - II	3
2.4.6 T	Pharmaceutical Engineering	3



**Semester-V Third Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
3.5.1 T	Industrial Pharmacy-I	3
3.5.1 P	Industrial Pharmacy-I	3
3.5.2 T	Pharmaceutical Analysis-III	3
3.5.2 P	Pharmaceutical Analysis-III	3
3.5.3 T	Medicinal Chemistry-I	3
3.5.3 P	Medicinal Chemistry-I	3
3.5.4 T	Pharmacology-II	3
3.5.4 P	Pharmacology-II	3
3.5.5 T	Analytical Pharmacognosy & Extraction Technology	3
3.5.5 P	Analytical Pharmacognosy & Extraction Technology	3
3.5.6 T	Pharmaceutical Business Management & Disaster Management	3
3.5.7 T	Active Pharmaceutical Ingredients Technology	3

**Semester-VI Third Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
3.6.1 T	Industrial Pharmacy-II	3
3.6.1 P	Industrial Pharmacy-II	3
3.6.2 T	Pharmaceutical Analysis-IV	3
3.6.2 P	Pharmaceutical Analysis-IV	3
3.6.3 T	Medicinal Chemistry-II	3
3.6.3 P	Medicinal Chemistry-II	3
3.6.4 T	Pharmacology-III	3
3.6.4 P	Pharmacology-III	3
3.6.5 T	Natural Product Chemistry	3
3.6.5 P	Natural Product Chemistry	3
3.6.6 T	Bioorganic Chemistry & Drug Design	3
3.6.7 T	Pharmaceutical Biotechnology	3



**Semester-VII Final Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
4.7.1 T	Sterile Products	3
4.7.1 P	Sterile Products	3
4.7.2 T	Pharmaceutical Analysis-V	3
4.7.2 P	Pharmaceutical Analysis-V	3
4.7.3 T	Medicinal Chemistry-III	3
4.7.3 P	Medicinal Chemistry-III	3
4.7.4 T	Pharmacology-IV	3
4.7.4 P	Pharmacology-IV	3
4.7.5 T	Natural Drug Technology	3
4.7.5 P	Natural Drug Technology	3
4.7.6 T	Bio-pharmaceutics & Pharmacokinetics	2
4.7.7 T	Pharmaceutical Jurisprudence	3

**Semester-VIII Final Yr. B. Pharmacy**

Sr. no.	Subject	Hours per week
4.8.1 T	Advanced Drug Delivery System	3
4.8.1 P	Advanced Drug Delivery System	3
4.8.2 T	Cosmetic science	3
4.8.2 P	Cosmetic science	3
4.8.3 T	Pharmaceutical Analysis-VI	3
4.8.3 P	Pharmaceutical Analysis-V I	3
4.8.4 T	Medicinal Chemistry-IV	3
4.8.4 P	Medicinal Chemistry-IV	3
4.8.5 T	Pharmacology-V (Including Biostatistics)	3
4.8.5 P	Pharmacology-V (Including Biostatistics)	3
4.8.6 T	Natural Products: Commerce, Industry & Regulations	3
4.8.7 T	Quality Assurance Techniques	3





RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
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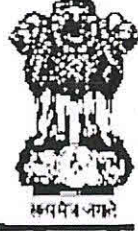
## 5. Pharmacy Council of India Course Regulation



# PCI Course Regulation 2014

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NEW DELHI, THURSDAY, DECEMBER 11, 2014/AGRAHAYANA 20, 1936

भारतीय भेषजी परिषद्

अधिसूचना

नई दिल्ली, 10 दिसम्बर, 2014

**भेषजी स्नातकोत्तर (एम.फार्म) पाठ्यक्रम विनियम, 2014**

सं. 14-136/2014-भा.भे.परि.-भेषजी अधिनियम, 1948 (1948 का 8) की धारा 10 और 18 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए भारतीय भेषजी परिषद्, केन्द्रीय सरकार के अनुमोदन से निम्नलिखित विनियम बनाती है, अर्थात्

**भेषजी स्नातकोत्तर (एम.फार्म.) पाठ्यक्रम विनियम, 2014**

अध्याय-I

1. संक्षिप्त नाम और प्रारंभ :

- इन विनियमों का नाम भेषजी स्नातकोत्तर (एम.फार्म.) पाठ्यक्रम विनियम, 2014 है।
- ये सरकारी राजपत्र में प्रकाशन की तारीख से प्रवृत्त होंगे।
- भेषजी स्नातकोत्तर (एम.फार्म.) में भेषजी अधिनियम, 1948 के अधीन वृत्ति का व्यवसाय करने के लिए भेषजज्ञ के रूप में पंजीकरण/अर्हता अभिवृद्धि के प्रयोजनार्थ इन विनियमों में यथा विहित पाठ्यक्रम और परीक्षा उत्तीर्ण करने पर एक प्रमाण-पत्र दिया जाएगा।

2. पाठ्यक्रम की अवधि :

- स्नातकोत्तर पाठ्यक्रम की अवधि दो पूर्णकालिक शैक्षणिक वर्ष होगी और प्रत्येक शैक्षणिक वर्ष कम से कम दो सौ कार्य दिवस का होगा।
- एम.फार्म. का अध्ययन वार्षिक पद्धति का होगा जिसके अंतर्गत शैक्षणिक अवधि के प्रारंभ से 12 मास तक विस्तारित एम.फार्म (भाग-1) और अगले 12 मास की अवधि का एम.फार्म (भाग-2) होगा।
- एम.फार्म. (भाग-1) के अंत में एम.फार्म (भाग-1) की विश्वविद्यालय परीक्षा होगी। एम.फार्म. (भाग-2) के अंत में अभ्यर्थी विश्वविद्यालय द्वारा अनुमोदित विषय पर एक शोध निबंध (डेजरटेशन) प्रस्तुत करेगा।

4899 GI/2014

(1)



## अधिसूचना

नई दिल्ली, 10 दिसम्बर, 2014

## भेषजी स्नातक (बी.फार्म) पाठ्यक्रम विनियम, 2014

संख्या 14-154/2010-भा.भे.परि.-भेषजी अधिनियम, 1948 (1948 का 8) की धारा 10 और 18 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए भारतीय भेषजी परिषद्, केन्द्रीय सरकार के अनुमोदन से निम्नलिखित विनियम बनाती है, अर्थात्

## अध्याय - I

## 1. संक्षिप्त नाम और प्रारंभ -

- (1) इन विनियमों का नाम भेषजी स्नातक (बी.फार्म) पाठ्यक्रम विनियम, 2014 है।
- (2) ये राजपत्र में प्रकाशन की तारीख से प्रवृत्त होंगे।

## 2. भेषजी स्नातक के लिए भेषजी अधिनियम, 1948 के अधीन भेषजी वृत्ति का व्यवसाय करने के लिए भेषजज्ञ के रूप में पंजीकरण के प्रयोजन के लिए इन विनियमों में यथा विहित पाठ्यक्रम का अध्ययन और परीक्षा उत्तीर्ण करने पर एक प्रमाणपत्र जारी किया जाएगा।

## अध्याय - II

## 3. पाठ्यक्रम की अवधि -

भेषजी स्नातक : पाठ्यक्रम की अवधि पूर्णकालिक चार शैक्षणिक वर्ष (वार्षिक/सेमेस्टर) होगी। प्रत्येक शैक्षणिक वर्ष वार्षिक पद्धति के लिए कम से कम दो सौ कार्य दिवस और प्रत्येक सेमेस्टर के लिए एक सौ कार्य दिवस की अवधि का होगा।

## 4. प्रवेश के लिए न्यूनतम अर्हता -

क. प्रथम वर्ष भेषजी स्नातक - निम्नलिखित परीक्षाओं में से किसी में उत्तीर्ण -

- i) अभ्यर्थी, ने भारतीय विश्वविद्यालय संघ द्वारा 10+2 परीक्षा के समकक्ष मान्यता प्राप्त संबंधित राज्य/केन्द्रीय सरकार के प्राधिकरणों द्वारा संचालित 10+2 परीक्षा उत्तीर्ण की हो जिसमें एक विषय अंग्रेजी हो तथा भौतिकी, रसायन विज्ञान, गणित/जीव विज्ञान पृथक-पृथक वैकल्पिक विषय हो। तथापि, जिन छात्रों के पास अनौपचारिक और गैर कक्षा आधारित विद्यालयी संस्था जैसे, राष्ट्रीय मुक्त विद्यालयी परीक्षा शिक्षण संस्थान, राज्यों की मुक्त विद्यालय पद्धति आदि की 10+2 अर्हता है, वे भेषजी स्नातक पाठ्यक्रम में प्रवेश के लिए पात्र नहीं होंगे।
- ii) भारतीय भेषजी परिषद् द्वारा उपर्युक्त परीक्षाओं में से किसी के समकक्ष अनुमोदित कोई अन्य अर्हता।

तथापि, पाठ्यक्रम में प्रवेश के वर्ष के 31 दिसम्बर या उससे पूर्व छात्र की आयु 17 वर्ष होनी चाहिए।

तथापि, यह कि अनुसूचित जातियों, अनुसूचित जन-जातियों और अन्य पिछड़े वर्गों के छात्रों के लिए सीटों का आरक्षण केन्द्रीय सरकार/राज्य सरकार/संघ क्षेत्र प्रशासन, जो भी हो, द्वारा समय-समय पर जारी किए गए अनुदेशों के अनुसार होगा।



- ख. भेषजी स्नातक में बाद में प्रवेश (दूसरे वर्ष/तीसरे सेमेस्टर में)  
भेषजी अधिनियम की धारा 12 के अधीन भारतीय भेषजी परिषद् द्वारा अनुमोदित संस्थान से डी.फार्म. पाठ्यक्रम में उत्तीर्ण ।
5. भेषजी स्नातक पाठ्यक्रम में प्रवेश संख्या उतनी होगी जो भारतीय भेषजी परिषद् द्वारा समय-समय पर निर्धारित की जाएगी।
6. अध्ययन पाठ्यक्रम - भेषजी स्नातक के अध्ययन पाठ्यक्रम के विषय तथा सिद्धांत पक्ष, व्यवहार पक्ष और अनुशिक्षणीय पक्ष में शिक्षण के प्रत्येक विषय के लिए एक सप्ताह में उतने घन्टे होंगे जितने भारतीय भेषजी द्वारा समय-समय पर निर्धारित किए जाएंगे।
7. व्यावहारिक प्रशिक्षण : छात्र से अपेक्षित है कि वह 150 घण्टों का व्यावहारिक प्रशिक्षण प्राप्त करे
- (क) भेषजी व्यवहार (अस्पताल/सामुदायिक भेषजी) अथवा
- (ख) भेषजीय और सम्बन्ध उद्योगों में जो दूसरे वर्ष के पश्चात् अध्ययन क्रम के दौरान कम से कम एक मास की अवधि का हो।
8. पाठ्य विवरण - अध्ययन के हर विषय के लिए पाठ्य विवरण वह होगा जो भारतीय भेषजी परिषद् द्वारा समय-समय पर निर्धारित करेगी ।
9. अध्ययन पाठ्यक्रम संचालित करने वाले प्राधिकरण का अनुमोदन -
- 1) कोई व्यक्ति, संस्थान, सोसायटी, नगर या विश्वविद्यालय भारतीय भेषजी परिषद् के पूर्व अनुमोदन के बिना भेषजी स्नातक पाठ्यक्रम प्रारंभ और संचालित नहीं करेगा।
- 2) भेषजी अधिनियम की धारा 12 की उपधारा (1) के अधीन अनुमोदन प्राप्त करने के प्रयोजन हेतु कोई व्यक्ति या भेषजी महाविद्यालय ऐसी स्कीम प्रस्तुत करेगा जो भारतीय भेषजी परिषद् द्वारा निर्धारित की गई हो।
- 3) ऊपर उपविनियम (2) में उल्लेखित स्कीम ऐसे प्रारूप में होगी और उसमें ऐसा विवरण होगा तथा ऐसी रीति से प्रस्तुत की जाएगी तथा उसके साथ ऐसी फीस संलग्न होगी जो निर्धारित की गई हो :
- तथापि, भारतीय भेषजी परिषद् इन विनियमों के अधीन किसी संस्थान को तब तक अनुमोदित नहीं करेगी जब तक कि उसने इन विनियमों के परिशिष्ट 'क' में यथा निर्दिष्ट भवन, वास-सुविधा, प्रयोगशाला, उपकरण, शिक्षण कर्मचारीवृंद, गैर-शिक्षण कर्मचारीवृंद आदि के संबंध में अध्यापन के पर्याप्त इंतजाम न कर लिए हों।
10. परीक्षा -
1. भेषजी स्नातक के प्रत्येक शैक्षणिक वर्ष/सेमेस्टर के अंत में परीक्षा होगी।
2. प्रत्येक परीक्षा हर वर्ष दो बार अर्थात् नियमित और अनुपूरक परीक्षा आयोजित की जाएगी।
3. परीक्षा लिखित और व्यावहारिक (मौखिक परीक्षा समेत) होगी, प्रत्येक भाग के लिए अधिकतम अंक होंगे जो भारतीय भेषजी परिषद् द्वारा समय-समय पर निर्धारित किए जाएंगे
11. परीक्षा में बैठने की पात्रता : परीक्षा में बैठने के लिए केवल वही छात्र पात्र होंगे जो उस संस्थान के प्रमुख का प्रमाण-पत्र प्रस्तुत करेंगे जिसमें उन्होंने हर विषय में सिद्धांत पक्ष और व्यवहार पक्ष दोनों में अलग-अलग आयोजित कम से कम 80 प्रतिशत कक्षाओं में हाजिर होकर अध्ययन पाठ्यक्रम पूरा किया हो।
12. परीक्षा का ढंग :
- (1) सैद्धांतिक परीक्षा तीन घन्टे तथा व्यावहारिक परीक्षा चार घन्टे की होगी।
- (2) जो छात्र किसी विषय की सैद्धांतिक या व्यावहारिक परीक्षा में उत्तीर्ण नहीं होगा वह यथास्थिति सैद्धांतिक या व्यावहारिक परीक्षा में दोबारा बैठेगा।
- (3) व्यावहारिक परीक्षा में मौखिक परीक्षा भी शामिल होगी।



13. सत्र परीक्षा में अंक देना तथा अभिलेख का रख रखाव -

- (1) भेषजी स्नातक पाठ्यक्रम का प्रशिक्षण देने वाले संस्थान में सैद्धांतिक और व्यावहारिक कक्षा कार्य और परीक्षाओं का नियमित अभिलेख हर छात्र के लिए रखा जाएगा तथा हर सैद्धांतिक विषय के लिए 25 अंक और हर व्यावहारिक विषय के लिए 25 अंक सत्रीय अंक के रूप में रखे जाएंगे।
- (2) प्रत्येक शैक्षणिक वर्ष के दौरान कम से कम तीन आवधिक सत्र परीक्षाएं होंगी तथा सत्रीय अंकों की गणना किन्हीं दो प्रदर्शनों के सर्वोच्च औसत पर आधारित होगी।
- (3) व्यावहारिक विषयों में सत्रीय अंक निम्नलिखित आधार पर दिए जाएंगे :-
  - (i) सत्र परीक्षा में वास्तविक प्रदर्शन (15 अंक),
  - (ii) व्यावहारिक कक्षा कार्य, तत्परता, मौखिक परीक्षा, अभिलेख रखने आदि का दैनिक मूल्यांकन (10 अंक)

14. परीक्षा उत्तीर्ण करने के लिए न्यूनतम अंक - कोई छात्र तब तक परीक्षा में उत्तीर्ण घोषित नहीं किया जाएगा जब तक कि उसने सत्र अंकों समेत सैद्धांतिक या व्यावहारिक परीक्षाओं में हर विषय में पृथक-पृथक कम से कम 50% अंक प्राप्त न किए हों। भेषजी स्नातक में एक ही प्रयास में सब विषयों में कुल 60% या इससे अधिक अंक प्राप्त करने वाले छात्रों को प्रथम श्रेणी में उत्तीर्ण घोषित किया जाएगा। किसी विषय या किन्हीं विषयों में 75% या इससे अधिक अंक प्राप्त करने वाले छात्रों की उस विषय या उन विषयों में विशेष योग्यता के साथ उत्तीर्ण घोषित किया जायेगा बशर्ते कि सब विषय एक ही प्रयास में उत्तीर्ण किए हों।

14(क). अगले वर्ष में प्रोन्नति के लिए पात्रता - वे सभी छात्र, जो सभी विषयों में बैठे हैं और प्रथम वर्ष की वार्षिक परीक्षा में उत्तीर्ण हुए हैं, दूसरे वर्ष में प्रोन्नति के लिए पात्र हैं आदि आदि। फिर भी दो से अधिक विषयों में असफल छात्र अगले वर्ष की कक्षा में प्रोन्नति से वंचित हो जाएंगे।

15. परीक्षाओं का अनुमोदन - विनियम 10 से 12 और 14 में वर्णित परीक्षाएं उस परीक्षा प्राधिकरण द्वारा आयोजित की जाएंगी जो भेषजी अधिनियम 1948 की धारा 12 की उपधारा (2) के अधीन भारतीय भेषजी परिषद् द्वारा अनुमोदित हो। ऐसा अनुमोदन तभी दिया जाएगा जब संबंधित परीक्षा प्राधिकरण इन विनियमों के परिशिष्ट (ख) में विनिर्दिष्ट शर्तों को पूरा करता हो।

16. परीक्षा उत्तीर्ण करने का प्रमाण-पत्र - हर छात्र जो भेषजी स्नातक की परीक्षाएं उत्तीर्ण कर लेगा उसे परीक्षा प्राधिकरण द्वारा प्रमाण-पत्र दिया जाएगा।

परिशिष्ट (क)

(विनियम 9 देखिए)

शैक्षणिक प्रशिक्षण संस्था द्वारा पूरी की जाने वाली शर्तें

1. भेषजी अधिनियम 1948 की धारा 12 की उपधारा (1) के अधीन भेषजी स्नातक के लिए अध्ययन पाठ्यक्रम के अनुमोदन के लिए भारतीय भेषजी परिषद् में आवेदन करने वाला कोई प्राधिकरण या संस्था भारतीय भेषजी परिषद् द्वारा समय-समय पर निर्धारित अवसरचनात्मक सुविधाओं का अनुपालन करेगा।
2. भेषजी स्नातक कार्यक्रम केवल उन्हीं संस्थाओं द्वारा संचालित किए जाएंगे जो भेषजी अधिनियम 1948 की धारा 12 के उपबन्धों के अनुसार भेषजी स्नातक के लिए भारतीय भेषजी परिषद् द्वारा अनुमोदित है।
3. शिक्षण कर्मचारी वृन्द

(i) कर्मचारी प्रतिरूप (पैटर्न) : सभी शिक्षक पूर्णकालिक होंगे

(ii) निदेशक/प्रधानाचार्य/संस्था प्रमुख - 1



3. फार्मास्यूटिकल कैमिस्ट्री	-	2
4. फार्माकोग्नोसी	-	1
5. फार्मास्यूटिकल एनालेसिस	-	1
	योग	8

प्रयोगशालाओं के अलावा, तुला कक्ष, सेप्टिकरोधी कक्ष या केबिनेट, पशुशाला और मशीन कक्ष की भी व्यवस्था होनी चाहिए।

प्रयोगशाला का फर्श क्षेत्रफल किसी भी समय प्रयोगशाला में कार्य करने के लिए प्रतिछात्र कम से कम 30 वर्ग फुट होना चाहिए जो तैयारी कक्ष सहित कम से कम 900 वर्ग फुट अवश्य हो।

प्रयोगशालाओं की फिटिंग और उसका निर्माण ऐसी रीति से किया गया हो कि उन्हें ठीक से स्वच्छ रखा जा सके। जहां आवश्यक हो वहां गैस और पानी की फिटिंग, शैल्फ, फ्यूमिंग अलमारियों की व्यवस्था होनी चाहिए।

#### 6. उपस्कर और उपकरण

विभिन्न विभागों के लिए अपेक्षित उपस्कर और उपकरण वह होंगे जो भारतीय भेषजी परिषद् द्वारा समय-समय पर निर्धारित किए जाएंगे।

#### परिशिष्ट (ख)

(विनियम 15 देखिए)

#### परीक्षा प्राधिकरण द्वारा पूरी की जाने वाली शर्तें

- परीक्षा प्राधिकरण केन्द्रीय सरकार/राज्य सरकार/संघ-क्षेत्र प्रशासन द्वारा गठित विश्वविद्यालय अथवा डीम्ड यूनिवर्सिटी होगी जिसके द्वारा यह सुनिश्चित किया जाए कि परीक्षा केन्द्रों पर परीक्षाओं में अनुशासन और शालीनता का कड़ाई से पालन हो।
- वह भारतीय भेषजी परिषद् के निरीक्षक या निरीक्षकों को परीक्षाओं में जाने और उनका निरीक्षण करने देगा।
- वह निम्नलिखित व्यवस्थाएं भी करेगा -
  - लिखित परीक्षाएं आयोजित करने के लिए आवश्यक फर्नीचर युक्त पर्याप्त कक्ष ;
  - प्रायोगिक परीक्षा लेने के लिए साधन संपन्न प्रयोगशालाएं ;
  - परीक्षा संचालित करने और अन्वीक्षण करने के लिए पर्याप्त योग्य और जिम्मेदार परीक्षक ; तथा
  - ऐसी अन्य सुविधाएं जो परीक्षाओं के दक्षतापूर्ण तथा उचित संचालन के लिए आवश्यक हों।
- यदि किसी अभ्यर्थी द्वारा ऐसा अपेक्षित हो तो वह परीक्षा प्राधिकरण को विहित शुल्क, यदि कोई है, लेने के बाद परीक्षा में अभ्यर्थी द्वारा प्राप्त अंकों का विवरण देगा।
- वह ऐसे परीक्षकों की नियुक्ति करेगा जिनकी अर्हताएं संबंधित विषयों के शिक्षकों की अर्हताओं के समकक्ष हों जो भेषजी संस्थाओं में शिक्षकों की न्यूनतम योग्यता विनियम 2014 में निहित है।
- भेषजी अधिनियम 1948 की धारा 12 की उपधारा (3) के अनुसरण में परीक्षा प्राधिकरण भारतीय भेषजी परिषद् के सचिव को परीक्षाओं के लिए नियत तारीखें ऐसी परीक्षाओं की समय-सारणी, परीक्षा से कम से कम 6 सप्ताह पहले संसूचित करेगा जिससे कि परिषद् ऐसी परीक्षाओं में उपस्थित रहने के लिए निरीक्षण दल का इंतजाम कर सके।
- परीक्षा प्राधिकरण यह सुनिश्चित करेगा कि भेषजी स्नातक कार्यक्रम के लिए परीक्षा आयोजित करने के लिए परीक्षक ऐसे व्यक्ति हों जिनके पास भेषजी अर्हता हो और जो किसी अनुमोदित संस्था में भेषजी स्नातक कार्यक्रम के शिक्षण में भाग लेते हों।

अर्चना मुद्गल, निबंधक-एवं-सचिव

[विज्ञापन III/4/असा./101/14]



## NOTIFICATION

New Delhi, the 10th December, 2014

**The Bachelor of Pharmacy (B.Pharm.) Course Regulations, 2014**

**No. 14-154/ 2010- PCI.**—In exercise of the powers conferred by Section 10 and 18 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government hereby makes the following regulations; namely—

## CHAPTER-I

1. **Short title and commencement –**

- (1) These regulations may be called the Bachelor of Pharmacy (B.Pharm) Course Regulations, 2014.
- (2) They shall come into force from the date of their publication in the official Gazette.

2. B. Pharm shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.

## CHAPTER-II

3. **Duration of the course. –**

B. Pharm: The duration of the course shall be four academic years (annual/semester) full time with each academic year spread over a period of not less than two hundred working days for annual pattern and hundred working days for each semester.

4. **Minimum qualification for admission to –**A. **First year B. Pharm – A pass in any of the following examinations –**

- i. 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/Biology as optional subjects individually. "However, the students possessing 10+2 qualification from non-formal and non-class rooms based schooling such as National Institute of Open Schooling, open school systems of States etc. shall not be eligible for admission to B.Pharm Course."
- ii. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31<sup>st</sup> December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

B. **B. Pharm lateral entry (to second year/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.

5. Number of admissions in B. Pharm course shall be as prescribed by the Pharmacy Council of India from time to time.
6. Course of study. – The course of study for B. Pharm shall include the subjects, number of hours in a week devoted to each subject for its teaching in theory, practical and tutorial as may be prescribed by the Pharmacy Council of India from time to time.
7. Practical Training: The student is required to undergo practical training of 150 hrs either in (A) Pharmacy Practice (Hospital/Community pharmacy) or (B) Pharmaceutical and allied Industries spread over a period of not less than one month during the course of study after second year.
8. Syllabus. – The syllabus for each subject of study shall be as prescribed by the Pharmacy Council of India from time to time.
9. Approval of the authority conducting the course of study.
  1. No person, institution, society, trust or university shall start and conduct B. Pharm programme without the prior approval of the Pharmacy Council of India.



2. Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as may be prescribed by the Pharmacy Council of India.
3. The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-A to these regulations.

10. Examination. —

1. There shall be an examination at the end of each academic year/semester of B.Pharm.
2. Each examination may be held twice every year namely regular and supplementary examination.
3. The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part as may be prescribed by the Pharmacy Council of India from time to time.

11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the course of study by attending not less than 80% of the classes held both in theory and practicals separately in each subject shall be eligible for appearing at examination.

12. Mode of examinations.—

- (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.
- (2) A candidate who fails in theory or practical examination of a subject shall re-appear in theory or practical as the case may be.
- (3) Practical examination shall also consist of a viva –voce (Oral) examination.

13. Award of sessional marks and maintenance of records—

- (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for B. Pharm course, shall be maintained for each student in the institution and 25 marks for each theory and 25 marks for each practical subject shall be allotted as sessional marks.
- (2) There shall be at least three periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
- (3) The sessional marks in practicals shall be allotted on the following basis:-
  - (i) Actual performance in the sessional examination (15 marks);
  - (ii) Day to day assessment in the practical class work, promptness, viva-voce, record maintenance, etc. (10 marks).

14. Minimum marks for passing examination.— A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory and practical examinations, including sessional marks. The students securing 60% marks or above in aggregate in all subjects in a single attempt at B. Pharm shall be declared to have passed in the First Class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he / she passes in all the subjects in a single attempt.

14 (a). Eligibility for the promotion to the next year. — All the students who have appeared for all the subjects and passed the First year Annual Examination are Eligible for promotion to the second year and so on. However, failure in more than two subjects shall debar him /her from promotion to the next year classes.

15. Approval of examinations.— Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix-(B) to these regulations.

16. Certificate of passing examination.— Every student who has passed the examinations for the B. Pharm shall be granted a certificate by the examining authority.



**5) ACCOMMODATION :**

Suitable and sufficient accommodation with adequate ventilation, lighting and other hygienic conditions should be provided to the rooms for Principal or the Head of the department, office, class rooms, library, staff, staff common room, students' common room, museum, laboratories, stores, etc.

At least two lecture halls along with eight laboratories as specified below should be provided for: —

1. Pharmaceutics and Pharmacokinetics Lab	- 2
2. Life Science (Pharmacology, Physiology, Pathophysiology)	- 2
3. Pharmaceutical Chemistry	- 2
4. Pharmacognosy	- 1
5. Pharmaceutical Analysis	- 1
	-----
	Total = 8
	-----

In addition to the laboratories, balance room, aseptic room or cabinet, animal house and a machine room shall also be provided.

Floor area of the laboratory should not be less than 30 square feet per student required to work in the laboratory at any given time subject to a minimum of 900 square feet including Preparation Room.

Laboratories should be fitted and constructed in a manner that these can be kept reasonably clean. Gas and water fittings, shelves, fuming cupboards be provided wherever necessary.

**6. EQUIPMENT AND APPARATUS :**

The details of equipments and apparatus required for various departments shall be as prescribed by the Pharmacy Council of India from time to time.

**APPENDIX - B**

(See regulation 15)

**CONDITIONS TO BE FULFILLED BY  
THE EXAMINING AUTHORITY**

1. The Examining Authority shall be a Indian University constituted by the Central Government/State Government/Union Territory Administration or a Deemed to be University. It shall ensure that discipline and decorum of the examinations are strictly observed at the examination centers.
2. It shall permit the Inspector or Inspectors of the Pharmacy Council of India to visit and inspect the examinations.
3. It shall provide:-
  - (a) adequate rooms with necessary furniture for holding written examinations;
  - (b) well-equipped laboratories for holding practical examinations;
  - (c) an adequate number of qualified and responsible examiners and staff to conduct and invigilate the examinations; and
  - (d) such other facilities as may be necessary for efficient and proper conduct of examinations.
4. It shall, if so required by a candidate, furnish the statement of marks secured by a candidate in the examinations after payment of prescribed fee, if any, to the Examining Authority.
5. It shall appoint examiners whose qualifications should be similar to those of the teachers in the respective subjects as prescribed in the Minimum Qualification for Teachers in Pharmacy Institutions Regulations, 2014.
6. In pursuance of sub-section (3) of section 12 of the Pharmacy Act, 1948, the Examining Authority shall communicate to the Secretary, Pharmacy Council of India, not less than six weeks in advance the dates fixed for examinations, the time-table for such examinations, so as to enable the Council to arrange for inspection teams to attend at such examinations.
7. The Examining Authority shall ensure that examiners for conducting examination for B. Pharm. programme shall be persons possessing pharmacy qualification and are actually involved in the teaching of the B. Pharm. programme in an approved institution.



ARCHNA MUDGAL, Registrar-cum-Secy.

[ADVT. III/4/Exty./101/14]





# भारत का राजपत्र The Gazette of India

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असाधारण  
EXTRAORDINARY

भाग III—खण्ड 4  
PART III—Section 4

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 435]

नई दिल्ली, शुक्रवार, अक्टूबर 16, 2020/आश्विन 24, 1942

No. 435]

NEW DELHI, FRIDAY, OCTOBER 16, 2020/ASVINA 24, 1942

भारतीय भेषजी परिषद

अधिसूचना

नई दिल्ली, 9 अक्टूबर, 2020

फार्मैसी (भेषजी) में डिप्लोमा कोर्स के लिए शिक्षा विनियम, २०२०

भेषजी अधिनियम, १९४८ की धारा १० के तहत विनियम।

(भारत सरकार एवं स्वास्थ्य एवं परिवार कल्याण मंत्रालय के पत्रांक जेड-28020/59/2019-ए एच एस/एफ टी एस-8012809 दिनांक 7.10.2020 ) द्वारा अनुमोदित एवं भारतीय भेषजी परिषद् द्वारा प्रकाशित)

सं. १४-५५/२०२०- भा.भे.परि. - भेषजी अधिनियम, १९४८ (१९४८ का ं) की धारा १० द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए भारतीय भेषजी परिषद केन्द्रीय सरकार के अनुमोदन से निम्नलिखित संशोधन करती है, अर्थात:-

अध्याय - १

१. संक्षिप्त शीर्षक और प्रारंभ:-

- (१) इन विनियमों को फार्मैसी (भेषजी) में डिप्लोमा कोर्स के लिए शिक्षा विनियम, २०२० के नाम से जाना जाएगा।
- (२) ये राजपत्र में प्रकाशन की तारीख से प्रवृत्त होंगे।

२. फार्मासिस्ट के लिए योग्यता:-

फार्मैसी में डिप्लोमा (भाग-I और भाग-II) में उत्तीर्ण और फार्मैसी में डिप्लोमा (भाग-III) का संतोषजनक समापन फार्मासिस्ट के रूप में पंजीकरण के लिए आवश्यक न्यूनतम योग्यता है।



“पाठ्यक्रम में जहाँ कहीं भी पशु पर प्रयोग करने की बात कही गयी है, अपेक्षित ज्ञान तथा कौशल कम्प्यूटर आधारित मापक के जरिए प्रदान किया जाये। पशुओं के रखने का स्थान पशुओं पर प्रयोग पर नियन्त्रण तथा देखरेख करने के उद्देश्य से गठित समिति (सी पी सी एस ई ए) के दिशानिर्देशों के अनुसार होना चाहिए।

### (ख) कर्मचारी

प्रधानाचार्य/निदेशक/आचार्य/संस्थान के प्रमुख/विभागाध्यक्ष सप्ताह में आठ घंटे तक अध्यापन में लगे रह सकते हैं, और अन्य शिक्षण कर्मचारियों का कार्य भार सोलह घंटे प्रति सप्ताह से अधिक नहीं होना चाहिए।

कर्मचारी-छात्र अनुपात, थ्योरी कक्षाओं में 9:६० और प्रैक्टिकल कक्षाओं में 9:२० से अधिक नहीं होना चाहिए। प्रैक्टिकल में ३० छात्रों के एक बैच के लिए दो शिक्षक होने चाहिए। उपरोक्त मानदंडों के अनुसार, ६० छात्रों के लिए निम्नलिखित कर्मचारियों की आवश्यकता है:

१. प्रधानाचार्य/निदेशक/आचार्य/संस्थान के प्रमुख/विभागाध्यक्ष - एक

२. व्याख्याता:

- एम.फार्मा/फार्मा. डी - तीन
- ३ वर्ष के पेशेवर अनुभव के साथ बी. फार्मा - चार

नियमित संकाय के अलावा, संस्थान में एनाटॉमी और फिजियोलॉजी और बायोकेमिस्ट्री और क्लिनिकल पैथोलोजी पढ़ाने के लिए विजिटिंग फैकल्टी के रूप में बैचलर ऑफ मेडिसिन और बैचलर ऑफ सर्जरी (एम.बी.बी.एस.) संकाय हो सकता है।

प्रधानाचार्य/निदेशक/आचार्य/संस्थान के प्रमुख/विभागाध्यक्ष सहित शिक्षण संकाय की न्यूनतम योग्यता एवं अनुभव और उनके वेतनमान को भेषजी संस्थानों में शिक्षकों की न्यूनतम योग्यता विनियम, २०१४ में निर्धारित किया जाएगा।

शिक्षण कर्मचारियों का वेतनमान समान श्रेणी के पदों के लिए राज्य सरकार/विश्वविद्यालय अनुदान आयोग /अखिल भारतीय तकनीकी शिक्षा परिषद् द्वारा निर्धारित वेतनमान से कम नहीं होगा।

बशर्ते कि उपर्युक्त योग्यता निरस्त शिक्षा विनियमों के तहत नियुक्त पदाधिकारियों पर लागू नहीं होगी।

गैर-शिक्षण कर्मचारी

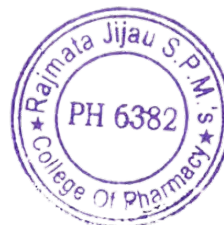
डी. फार्मा पाठ्यक्रम के लिए गैर-शिक्षण कर्मचारियों की सूची:

१.	प्रयोगशाला तकनीशियन (योग्यता- फार्मसी में डिप्लोमा)	२
२.	प्रयोगशाला परिचर	४
३.	कार्यालय अधीक्षक	१
४.	लिपिक-सह-लेखाकार	१
५.	स्टोर-कीपर (भंडारपाल)	१
६.	टाइपिस्ट (टंकक)	१
७.	सहायक पुस्तकालय अध्यक्ष	१
८.	चपरासी	२
९.	सफाई करने वाला/सफाई कर्मचारी	४
१०.	माली	१

### संग्रहालय

प्रत्येक संस्थान में पाठ्यक्रम में उल्लिखित कूड ड्रग्स, हर्बेरियम शीट्स और दवाओं और पौधों के वानस्पतिक नमूनों का संग्रहालय होगा। इसके अलावा, निम्नलिखित की सिफारिश की जाती है: -

१. औषधीय पौधों की रंगीन स्लाइड;



Wherever animal experimentations are prescribed in the curriculum, the required knowledge and skill should be imparted by using computer assisted modules. Animal hold area shall be as per the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) guidelines.

### (B) STAFF

Principal/Director/Professor/Head of Institution /Head of the Department may be engaged in teaching upto eight hours a week, and the work load of other teaching staff should not be more than sixteen hours per week.

Staff student ratio should not exceed 1:60 in theory classes and 1:20 in practical classes. There should be two teachers for a batch of 30 students in practicals. According to the above norms, the following staff is required for an intake of 60 students:

1. Principal/Director/Professor/Head of Institution/Head of the Department	- One
2. Lecturer :	
• M.Pharm/Pharm.D	- Three
• B.Pharm with 3 years of professional experience	- Four

In addition to regular faculty, the institution can have Bachelor of Medicine and Bachelor of Surgery (M.B.B.S) faculty as visiting faculty for teaching Anatomy & Physiology and Biochemistry and Clinical Pathology.

The minimum qualification and experience of the teaching faculty including the Principal/ Director/ Professor/ Head of Institution/ Head of Department and their payscales shall be as prescribed in the Minimum Qualification for Teachers in Pharmacy Institutions Regulations, 2014.

The pay scale of teaching staff shall not be less than the scale of pay prescribed by the State Government/ University Grants Commission/ All India Council for Technical Education for similar category of posts.

Provided that the above qualifications shall not apply to the incumbents appointed under the repealed Education Regulations.

#### Non-Teaching Staff

List of Non-Teaching staff for the D.Pharm course:

1.	Laboratory Technician (Qualification-Diploma in Pharmacy)	2
2.	Laboratory Attendent	4
3.	Office Superintendent	1
4.	Clerk-cum-Accountant	1
5.	Store-Keeper	1
6.	Typist	1
7.	Asstt. Librarian	1
8.	Peons	2
9.	Cleaners/Sweepers	4
10.	Gardener	1

#### **Museum**

Every institution shall maintain a museum of crude drugs, herbarium sheets, botanical specimens of the drugs and plants mentioned in the course. In addition, the following are recommended:-

1. Coloured slides of medicinal plants:
2. Display of popular patent medicines; and
3. Containers of common usage in medicines.



  
**PRINCIPAL**  
 Rajmata Jijau Shikshan Prasarak Mandal's  
**COLLEGE OF PHARMACY**  
 Dudulgaon, Pune-412 105.



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHPO13150



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President


Hon. Shri. Sudhir V. Mungase  
Secretary

Hon. Shri. Ajit D. Gavhane  
Treasurer

Dr. Kishor S. Jain  
Principal

## 6. SPPU academic calendar

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी  
Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.  
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**Savitribai Phule Pune University**  
( Formerly University of Pune)

**Circular No. 38 of 2023**

**Dates of Commencement and Conclusion of terms for the Academic Year 2022-23  
for University Department / Affiliated Colleges / Recognised Institutes.**

It is hereby informed that, the revised dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be as under.

Sr No	Name of the Courses , Faculties & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
1	<b>Science &amp; Technology</b>				
	<b>B.Pharmacy : I</b>	27/12/2022	25/04/2023	15/05/2023	31/08/2023
	<b>M.Pharmacy : I</b>	27/12/2022	25/04/2023	15/05/2023	31/08/2023
2	<b>Interdisciplinary Studies</b>				
	<b>M. S. W.</b>	12/07/2022	20/12/2022	04/01/2023	13/05/2023
3	<b>Commerce &amp; Management</b>				
	<b>M.B.A./ M.C.A.: I</b>	01/11/2022	03/03/2023	05/04/2023	07/07/2023
	<b>M.B.A. : II</b>	01/09/2022	30/01/2023	05/04/2023	07/07/2023
	<b>M.C.A. : II</b>	01/09/2022	16/12/2022	05/04/2023	07/07/2023
4	<b>Humanities</b>				
	<b>L.L.B. / B.A. L.L.B.- II</b>	31/10/2022	25/02/2023	18/03/2023	11/07/2023

**NOTE :**

1. In case, the Principal of the Affiliated Colleges require to give additional holiday in exceptional circumstances, he/she may do so by compensating the same by keeping the College working on Sunday.

  
**Deputy Registrar**  
(P.G.Admission)

Ref. No. PGS/ 1188  
Date: 06/03/2023

**Copy to: for Information and necessary action**

- The Members of the Management Council.
- The Deans of Faculties.
- The Registrar, Savitribai Phule Pune University, Pune.
- The Director, Examinations & Evaluation, Savitribai Phule Pune University, Pune.
- The Heads of all University Departments.
- The Principals of all Affiliated Colleges.
- The Directors of all Recognized Institutes.
- The Heads of all the Administrative Sections of the University Office.
- Asstt. Registrar, office of the Hon. Vice-Chancellor, Savitribai Phule Pune University
- Asstt. Registrar, office of the Hon. Pro-Vice-Chancellor, Savitribai Phule Pune University

**Savitribai Phule Pune University**  
( Formerly University of Pune)

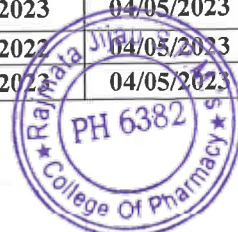


**Circular No. 302 of 2022**  
**Important Notification**

**Revised Dates of Commencement and Conclusion of terms of U.G. / P.G. Courses for the Academic Year 2022-23 for Affiliated Colleges / Recognised Institutes.**

In reference to the earlier circular issued by the University bearing no. 173 dated 10.06.2022 the dates of commencement and conclusion of First Term and Second Term in the academic calendar for the academic year 2022-23, for the following courses are being revised as under.

Sr No	Name of the Courses , Faculties & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
1	<b>Science &amp; Technology</b>				
	Science	20/06/2022	30/11/2022	26/12/2022	04/05/2023
	B.Engineering : II	17/08/2022	10/12/2022	02/01/2023	29/04/2023
	B.Engineering : III IV	18/07/2022	30/11/2022	02/01/2023	29/04/2023
	M.Engineering : II	18/07/2022	12/11/2022	09/01/2023	06/05/2023
	B.Architecture : II	08/08/2022	04/12/2022	19/12/2022	04/05/2023
	B.Architecture : III IV V	20/06/2022	08/11/2022	30/12/2022	15/05/2023
	M.Architecture:II	19/09/2022	07/01/2023	23/01/2023	20/05/2023
	B. Pharmacy: II III	01/08/2022	10/12/2022	02/01/2023	10/05/2023
	B. Pharmacy: IV	15/07/2022	03/12/2022	02/01/2023	10/05/2023
M. Pharmacy : II	01/08/2022	10/12/2022	26/12/2022	30/06/2023	
2	<b>Commerce &amp; Management</b>				
	Commerce	20/06/2022	30/11/2022	26/12/2022	04/05/2023
	MBA II (Including SIP project of 8	01/09/2022	30/01/2023	15/02/2023	26/05/2023
	MCA II	01/09/2022	16/12/2022	02/01/2023	15/04/2023
	BHMCT II III IV	01/09/2022	16/12/2022	02/01/2023	15/04/2023
3	<b>Humanities</b>				
	Arts	20/06/2022	30/11/2022	26/12/2022	04/05/2023
	Mental Moral and Social Sciences				
	L.L.B. II	31/10/2022	31/01/2023	06/02/2023	15/05/2023
	L.L.B. III	04/07/2022	12/12/2022	08/01/2023	15/05/2023
	B.A. L.L.B. II	31/10/2022	31/01/2023	06/02/2023	15/05/2023
D.A. L.L.B. III IV V	04/07/2022	12/12/2022	08/01/2023	15/05/2023	
4	<b>Inter disciplinary Studies</b>				
	Education : II	15/09/2022	06/01/2023	17/01/2023	10/05/2023
	Physical Education : II	15/09/2022	06/01/2023	17/01/2023	10/05/2023
	B.Lib & M.Lib	15/07/2022	30/11/2022	02/01/2023	04/05/2023
	Fine Arts & Performing Art	20/06/2022	30/11/2022	26/12/2022	04/05/2023
	Journalism PG	15/07/2022	30/11/2022	02/01/2023	04/05/2023



**NOTE :**

1. The dates of commencement and conclusion of the University concerned Department / Affiliated Colleges / Recognised Institutes for the Academic year of all those courses whose admission was made under Common Entrance Test (CET) conducted by Government of Maharashtra / Savitribai Phule Pune University will be declared separately.

Ganeshkhind, Pune-07  
Ref. No. PGS/4929  
Date: 15/10/2022

  
**Deputy Registrar**  
(P.G.Admission)

**Copy to: for Information and necessary action**

The Deans of Faculties.  
The Registrar, Savitribai Phule Pune University, Pune.  
The Director, Examinations & Evaluation, Savitribai Phule Pune University, Pune.  
The Heads of all University Departments.  
The Principals of all Affiliated Colleges.  
The Directors of all Recognized Institutes.  
The Heads of all the Administrative Sections of the University Office.  
Asstt. Registrar, office of the Hon. Vice-Chancellor, Savitribai Phule Pune University  
Asstt. Registrar, office of the Hon. Pro-Vice-Chancellor, Savitribai Phule Pune University



  
**PRINCIPAL**  
Rajmata Jijau Shikshan Prasarak Mandal's  
**COLLEGE OF PHARMACY**  
Dudulgaon, Pune-412 105.



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE

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DTE Code:- 6382 University Code:- CPHPO13150



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President


Hon. Shri. Sudhir V. Mungase  
Secretary

Hon. Shri. Ajit D. Gavhane  
Treasurer

Dr. Kishor S. Jain  
Principal

## 7. Institute academic calendar

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी  
Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.  
Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)  
Phone : (020) 20280280, 7447763086, 9422322070

 : [www.rjspmpharmacy.com](http://www.rjspmpharmacy.com)

Email: [rjspmcp123@gmail.com](mailto:rjspmcp123@gmail.com)

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Date: 30/07/2022

**ACADEMIC CALENDAR 2022-23**

**Actual working days in Odd Semester (III and V) 2022-23**

Term	Second and Third Year B.Pharm	
	Duration	Days
First term	01/08/2022 to 10/12/2022	132
Total no. of working days excluding Sunday and Holiday		111

**III and V Semester**

Sr. No.	Activity	Date/s	
		Sem 3	Sem 5
1	Commencement of teaching	01/08/2022	01/08/2022
2	First Sessional practical exam	26/09/2022 to 30/9/2022	26/09/2022 to 30/9/2022
3	First Sessional theory Exam	26/09/2022 to 30/9/2022	26/09/2022 to 30/9/2022
4	Second Sessional practical exam	19/12/2022 to 23/12/2022	19/12/2022 to 23/12/2022
5	Second Sessional theory Exam	19/12/2022 to 23/12/2022	19/12/2022 to 23/12/2022
6	Exam Form Filling	Yet not displayed by SPPU	Yet not displayed by SPPU
7	Display of Average of Sessional Examination Marks	24/12/2022	24/12/2022
8	Any Complaint regarding Sessional Examination Marks, if any	24/12/2022	24/12/2022
9	Uploading Internal Marks	Yet not displayed by SPPU	Yet not displayed by SPPU
10	Journal Certification	10/12/2022	10/12/2022
11	Conclusion of classes	10/12/2022	10/12/2022
12	University semester practical exam	Yet not displayed by SPPU	Yet not displayed by SPPU
13	University semester theory exam	Yet not displayed by SPPU	Yet not displayed by SPPU
14	Commencement of next semester (Even)	02/01/2023	02/01/2023

A.Y  
2022-23

**Co-Curricular Activities**

Sr No	particulars	Date
1	Teachers Day	5 September 2022
2	World pharmacist day	25 September 2022
3	वाचन प्रेरणा दिन   Vachan Prearana din	15 October 2022



*[Signature]*  
Dr. K.S. Jain

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Date: 30/07/2022

## ACADEMIC CALENDAR 2022-23

### Actual working days in Odd Semester (VII) 2022-23

Term	Final Year B.Pharm	
	Duration	Days
First term	01/08/2022 to 3/12/2022	125
Total no. of working days excluding Sunday and Holiday		95

### VII Semester

Sr. No.	Activity	Date/s
1	Commencement of teaching	01/08/2022
2	First Sessional practical exam	26/09/2022 to 30/9/2022
3	First Sessional theory Exam	26/09/2022 to 30/9/2022
4	Second Sessional practical exam	19/12/2022 to 23/12/2022
5	Second Sessional theory Exam	19/12/2022 to 23/12/2022
6	Exam Form Filling	Yet not displayed by SPPU
7	Display of Average of Sessional Examination Marks	24/12/2022
8	Any Complaint regarding Sessional Examination Marks, if any	24/12/2022
9	Uploading Internal Marks	Yet not displayed by SPPU
10	Journal Certification	10/12/2022
11	Conclusion of classes	3/12/2022
12	University semester practical exam	Yet not displayed by SPPU
13	University semester theory exam	Yet not displayed by SPPU
14	Commencement of next semester (Even)	02/01/2023

### Co-Curricular Activities

Sr No	particulars	Date
1	Teachers Day	5 September 2022
2	World pharmacist day	25 September 2022
3	वाचन प्रेरणा दिन   Vachan Prearana din	15 October 2022



*Dr. K. S. Jain*  
Dr. K. S. Jain

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Date: 02/01/2023

**ACADEMIC CALENDAR 2022-23**

**Actual working days in Odd Semester (I) 2022-23**

Term	First Year B.Pharm	
	Duration	Days
First term	11/01/2023 to 13/05/2023	118
Total no. of working days excluding Sunday and Holiday		90

Sr. No.	Activity	Date/s
		Sem 1
1	Commencement of teaching	11/01/2023
2	First Sessional practical exam	13/03/2023- 17/03/2023
3	First Sessional theory Exam	13/03/2023-17/03/2023
4	Second Sessional practical exam	17/04/2023-21/04/2023
5	Second Sessional theory Exam	17/04/2023 -21/04/2023
6	Exam Form Filling	Yet not displayed
7	Display of Average of Sessional Examination Marks	24/04/2023
8	Any Complaint regarding Sessional Examination Marks if any	24/04/2023 to 28/04/2023
9	Uploading Internal Marks	Yet not displayed
10	Journal Certification	13/05/2023
11	Conclusion of classes	13/05/2023
12	University semester practical exam	Yet not displayed
13	University semester theory exam	Yet not displayed

**EVENTS**

Activity	Date	day
Republic Day	26 January 2023	Thursday
Mahashivratri	18 February 2023	Saturday
Chhatrapati Shivaji Maharaj Jayanti	19 February 2023	Sunday
Holi (Second Day)	07 March 2023	Tuesday
Gudipadwa	22 March 2023	Wednesday
Ram Navami	30 March 2023	Thursday
Mahavir Jayanti	4 April 2023	Tuesday
Good Friday	07 April 2023	Friday
Dr. Babasaheb Ambedkar Jayanti	14 April 2023	Friday
Ramadan Eid (Eid-ul-Fitr) (Shawwal - 1)	22 April 2023	Saturday
Maharashtra Day	01 May 2023	Monday
Purnima Buddha	05 May 2023	Friday



*Dr. K. S. Jain*  
**Dr. K. S. Jain**

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Date: 29/12/2022

## ACADEMIC CALENDAR 2022-23

### Actual working days in even Semester (4,6,8) 2022-23

Term	Second, Third and Final Year B.Pharm	
	Duration	Days
Second Term	02/01/2023 to 10/05/2023	128
Total no. of working days excluding Sunday and Holiday		97

Sr. No.	Activity	Date/s		
		Sem 4	Sem 6	Sem 8
1	Commencement of teaching	02/01/2023	02/01/2023	02/01/2023
2	First Sessional practical exam	13/03/2023- 17/03/2023	13/03/2023- 17/03/2023	13/03/2023- 17/03/2023
3	First Sessional theory Exam	13/03/2023- 17/03/2023	13/03/2023- 17/03/2023	13/03/2023- 17/03/2023
4	Second Sessional practical exam	17/04/2023- 21/04/2023	17/04/2023- 21/04/2023	17/04/2023- 21/04/2023
5	Second Sessional theory Exam	17/04/2023 - 21/04/2023	17/04/2023 - 21/04/2023	17/04/2023 - 21/04/2023
6	Exam Form Filling	Yet not displayed	Yet not displayed	Yet not displayed
7	Display of Average of Sessional Examination Marks	24/04/2023	24/04/2023	24/04/2023
8	Any Complaint regarding Sessional Examination Marks, if any	24/04/2023 to 28/04/2023	24/04/2023 to 28/04/2023	24/04/2023 to 28/04/2023
9	Uploading Internal Marks	Yet not displayed	Yet not displayed	Yet not displayed
10	Journal Certification	10/05/2023	10/05/2023	10/05/2023
11	Conclusion of classes	10/05/2023	10/05/2023	10/05/2023
12	University semester practical exam	Yet not displayed	Yet not displayed	Yet not displayed
13	University semester theory exam	Yet not displayed	Yet not displayed	Yet not displayed

### EVENTS

Activity	Date	day
Republic Day	26 January 2023	Thursday
Mahashivratri	18 February 2023	Saturday
Chhatrapati Shivaji Maharaj Jayanti	19 February 2023	Sunday
Holi (Second Day)	07 March 2023	Tuesday
Gudipadwa	22 March 2023	Wednesday
Ram Navami	30 March 2023	Thursday
Mahavir Jayanti	4 April 2023	Tuesday
Good Friday	07 April 2023	Friday
Dr. Babasaheb Ambedkar Jayanti	14 April 2023	Friday
Ramadan Eid (Eid-ul-Fitr) (Shawwal - 1)	22 April 2023	Saturday
Maharashtra Day	01 May 2023	Monday
Purnima Buddha	05 May 2023	Friday



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Date: 13/05/2023

## ACADEMIC CALENDAR 2022-23

### Actual working days in even Semester (2) 2022-23

Term	Second, Third and Final Year B.Pharm	
	Duration	Days
Second Term	15/05/2023 to 31/08/2023	108
Total no. of working days excluding Sunday and Holiday		15

Sr. No.	Activity	Date/s
1	Commencement of teaching	15/05/2023
2	First Sessional practical exam	3.7.2023 to 08.7.2023
3	First Sessional theory Exam	03.7.2023 to 08.7.2023
4	Second Sessional practical exam	03.8.2023 to 08.8.2023
5	Second Sessional theory Exam	03.8.2023 to 08.8.2023
6	Exam Form Filling	30/05/2023
7	Display of Average of Sessional Examination Marks	11.8.2023
8	Any Complaint regarding Sessional Examination Marks if any	13.8.2023
9	Uploading Internal Marks	Yet not displayed
10	Journal Certification	31/08/2023
11	Conclusion of classes	31/08/2023
12	University semester practical exam	Yet not displayed
13	University semester theory exam	Yet not displayed

### EVENTS

Activity	Date	day
Bakri Id (Id-Uz-Zuha)	28-06-2023	Wednesday
Moharum	29-07-2023	Saturday
Independence Day	15-08-2023	Tuesday
Parsi New Year (Shahenshahi)	16-08-2023	Wednesday



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Secretary

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Treasurer

Dr. Kishor S. Jain  
Principal

## 8. Academic planner



**Rajmata Jijau Shikshan Prasarak Mandal's,  
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**ACADEMIC PLANNER 2022-23 (FIRST HALF)  
SEM 3 & 5 (Second & Third Year)**

**1) Number of working days and holidays for Second & Third year B.Pharmacy:**

Sr. No.	Month	Total Available Days	Holiday		Days Spend On Sessional Exam	Academic Days
			Sunday	Apart from Sundays		
1	August	31	4	4	0	23
2	September	30	4	0	5	21
3	October	31	5	8	0	18
4	November	30	4	1	0	25
5	December	10	1	0	0	9
Total Days		132	18	13	5	96

**Conclusion of the term: 10/12/2022**

**Extra Working Days:**

MON	TUE	WED	THU	FRI	SAT
07-08-2022	14-08-2022	21-08-2022	28-08-2022	04-09-2022	11-09-2022
18-09-2022	25-09-2022	16-10-2022	30-10-2022	06-11-2022	13-11-2022
20-11-2022	27-11-2022	04-12-2022	-	-	-

**Total Instructional Days: 96**

**2) Total Number of Working Days:**

Sr. No.	Class	Total Working Days
1	S.Y. B. Pharmacy (Sem III)	96
2	T.Y. B. Pharmacy (Sem V)	96

**3) Holidays: (Holidays)**

Sr. No	Date of Holiday	Day
Moharum	9 <sup>th</sup> August 2022	Tuesday
Independence Day	15 <sup>th</sup> August 2022	Monday
Parsi New Year (Shahenshahi)	16 <sup>th</sup> August 2022	Tuesday
Ganesh Chaturthi	31 <sup>st</sup> August 2022	Wednesday
Mahatma Gandhi Jayanti	2 <sup>nd</sup> October 2022	Sunday
Dasara	5 <sup>th</sup> October 2022	Wednesday
Id-E-Milad	9 <sup>th</sup> October 2022	Sunday
Diwali Vacations	21 <sup>st</sup> October 2022 to 26 <sup>th</sup> October 2022	-
Guru Nanak Jayanti	8 <sup>th</sup> November 2022	Tuesday
Christmas	25 <sup>th</sup> December 2022	Sunday

**4) Exam Dates (Proposed)**

Sr. No.	Activity	Sem 3	Sem 5
1	First Sessional practical exam	26/09/2022 to 30/9/2022	26/09/2022 to 30/9/2022
2	First Sessional theory Exam	26/09/2022 to 30/9/2022	26/09/2022 to 30/9/2022
3	Second Sessional practical exam	19/12/2022 to 23/12/2022	19/12/2022 to 23/12/2022
4	Second Sessional theory Exam	19/12/2022 to 23/12/2022	19/12/2022 to 23/12/2022



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**ACADEMIC PLANNER 2022-23 (FIRST HALF)  
SEM 7 (Final Year)**

**1) Number of working days and holidays for Final year B.Pharmacy:**

Sr. No.	Month	Total Available Days	Holiday		Days Spend On Sessional Exam	Academic Days
			Sunday	Apart from Sundays		
1	August	31	4	4	0	23
2	September	30	4	0	5	21
3	October	31	5	8	0	18
4	November	30	4	1	0	25
5	December	3	0	0	0	3
Total Days		125	17	13	5	90

Conclusion of the term: 03/12/2022

**Extra Working Days:**

MON	TUE	WED	THU	FRI	SAT
07-08-2022	14-08-2022	21-08-2022	28-08-2022	04-09-2022	11-09-2022
18-09-2022	25-09-2022	16-10-2022	30-10-2022	06-11-2022	13-11-2022
20-11-2022	27-11-2022	-	-	-	-

**Total Instructional Days: 91**

**2) Total Number of Working Days:**

Sr. No.	Class	Total Working Days
1	Final.Y. B. Pharmacy (Sem VII)	91

**3) Holidays: (Holidays)**

Sr. No	Date of holiday	Day
Moharum	9 <sup>th</sup> August 2022	Tuesday
Independence Day	15 <sup>th</sup> August 2022	Monday
Parsi New Year (Shahenshahi)	16 <sup>th</sup> August 2022	Tuesday
Ganesh Chaturthi	31 <sup>st</sup> August 2022	Wednesday
Mahatma Gandhi Jayanti	2 <sup>nd</sup> October 2022	Sunday
Dasara	5 <sup>th</sup> October 2022	Wednesday
Id-E-Milad	9 <sup>th</sup> October 2022	Sunday
Diwali Vacations	21 <sup>st</sup> October 2022 to 26 <sup>th</sup> October 2022	-
Guru Nanak Jayanti	8 <sup>th</sup> November 2022	Tuesday

**4) Exam Dates (Proposed)**

Sr. No.	Activity	Sem 7
1	First Sessional practical exam	26/09/2022 to 30/9/2022
2	First Sessional theory Exam	26/09/2022 to 30/9/2022
3	Second Sessional practical exam	19/12/2022 to 23/12/2022
4	Second Sessional theory Exam	19/12/2022 to 23/12/2022



  
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Treasurer

Dr. Kishor S. Jain  
Principal

## 9. Course file

## LIST OF CONTENTS: ACADEMIC COURSE FILE

Sr.No.	Content
	<b>THEORY AND PRACTICAL</b>
1	Introductory Page (Name of the Faculty, Dept., Subject Taught etc.)
2	Overview of Subject
3	Personal Timetable (indicating individual time slot only for the subjects taught, Year/ Semester wise)
4	Work Load (Individual workload for the subjects taught, Year/ Semester wise)
5	Learning Objectives
6	Learning Outcomes
7	Roll call list
8	Subject Syllabus copy (A copy of university syllabus for subject taught, pattern wise & Semester wise)
9	Syllabus Planners & Syllabus completion Reports
10	List of Reference Books
11	University question papers
12	Record of continuous assessment
13	List of Assignments
14	Question bank
15	Record of online test series
16	Sessional examination question paper
17	Sessional examination mark sheet
18	Record of slow learners and advanced learners
19	Result analysis
20	Study material/Teaching resources i) Self notes ii) Powerpoint handouts iii) Book review iv) Transparencies v) Any other



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# 10. Summary of Guest lectures



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
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**Summary of Guest lecture**  
**(Academic Year- 2022-23)**

Sr. no.	Date	Time	Students Involve	Topic	Name of Resource person	Details	No. of Participants
1	10/11/2022	3.30pm-5pm	Second, Third & Final Year	Career After Pharmacy	Mr. Aditya Bramhakule	Scientific and medical writer – Grade II at crest Springer Nature Technology and Publishing Solutions	64
2	18/11/2022	3.30pm-4.30pm	Final Year	Skill Development Training	Ms. Apurva Deshmukh	GTT Foundation Education and training Venture	50
3	06/04/2023	3.00pm-5.30pm	Second, Third & Final Year	“Physical & Mental Balance”	Ms. Priyanka Bhosale	Clinical Psychologist and Psychotherapist”	45

Sr. no.	Date	Time	Students Involve	Topic	Name of Resource person	Details	No. of Participants
4	12/04/2023	10.30am -12.00pm	Third & Final Year	“Introduction to clinical research & Career opportunities”	Mr. Dhanraj Jadhav	QA-Manager Regulatory Compliance and Quality Assurance	42
5	08/04/2023	10.00am-1.00pm	Third & Final year	“GPAT & NIPER Guidance session-1”	Dr. Nazama Inamdar	Professor at Government COP Amravati	63
6	08/04/2023	2.00pm-5.00pm	Final year	“Advance Instrumental Techniques”	Dr. Nazama Inamdar	Professor at Government COP Amravati	42
7	20/04/2023	10.00am-1.00pm	Third & Final Year	“GPAT, NIPER-session II & Competitive exam Guidance Session”	Mr. Sachin Jadhav	GPAT & NIPER Guide (Fundamental Pharmacy)	50



  
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Date-06/04/2023

## STUDENT NOTICE

All third and final year students of B. Pharmacy are hereby informed that GPAT guest lecture by **Dr. Nazama Inamdar** is organised on 08/04/2023 at 10 am in seminar hall.

**Note** – All should present in college uniform.

Attendance is compulsory.

Strict action will be taken if anyone remain absent.

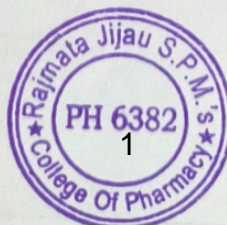
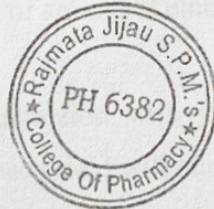
Mr. O. H. Kolhe  
(Event coordinator)

Ms. A. Z. Gite  
(Event coordinator)

Ms. Vipra Vaidya  
(Event coordinator)

Dr. K.S. Jain  
(Principal)

PRINCIPAL  
Rajmata Jijau Shikshan Prasarak Mandal  
**COLLEGE OF PHARMACY**  
Dudulgaon, Pune-412 105.





RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY (B.Pharm.)**

Approved by PCI, AICTE, Govt. of Maharashtra & DTE  
Affiliated to Savitribai Phule Pune University, Pune  
DTE Code:- 6382 University Code:- CPHPO13150



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ISO : 14001-2015

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President

Hon. Shri. Sudhir V. Mungase  
Secretary

Hon. Shri. Ajit D. Gavhane  
Treasurer

Dr. Kishor S. Jain  
Principal

## SUMMARY

### Description-

Seminar on Topic- **“GPAT and NIPER Guidance Session”** which was held on 08/04/2023 for Third & Final Year students at seminar hall.

**Speaker** – Dr. Nazama Inamdar, Professor at Government College of Pharmacy, Amravati- 444601 (Maharashtra)

Lecture started with introduction of Resource person, Dr. Nazama Inamdar

The main aim of the guest lecture was to make the students aware about the GPAT, NIPER Exam & Advance instrumental Techniques. Graduate Pharmacy Aptitude Test (GPAT) is a National Level Entrance Examination for entry into M. Pharma Programme.

### Objectives –

1. Introduction to GPAT & NIPER examination.
2. Students should know about NIPER examinations.
3. Students should know how to crack GPAT & NIPER Examination.
4. Students should know the Syllabus and reference books required for GPAT.
5. Students learn to get scholarship after graduation and importance of Higher score benefits
6. Students should know the syllabus for GPAT.
7. Students should know about the Advance Instrumental methods
8. Students should understand the important topics and how to study hard topics.
9. Students should know the easy tricks to understand the concept of hard topics.

### Topic Discussed –

1. Introduction to GPAT & NIPER Examination
2. GPAT and NIPER exam syllabus
3. Time management for the preparation of GPAT & NIPER.
4. Hard and easy topics to study.
5. UV- spectrophotometer, IR, MASS Spectroscopy
6. Important References
7. Distribution of questions with marks.
8. She also solved the answers asked by students during interaction



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Treasurer

Dr. Kishor S. Jain  
Principal

**Duration** - 180min

**Outcomes-**

- 1 Students got the information about syllabus of GPAT.
  2. Students got the information about syllabus of NIPER
  2. Students know the benefits of qualifying GPAT & NIPER
  3. Students got ideas regarding Overall syllabus and approximately weightage for each subject.
  4. Students understand all the points regarding GPAT & NIPER syllabus
  5. Students got idea regarding how to prepare short notes and how to study hard topics in short time.
  6. Students understand about all the important topics taken during the session.
  7. Students understand the all about the Advance instrumentation Techniques.
- So this seminar gives valuable contributions for students.

**Number of Participants-** 112



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Treasurer

Dr. Kishor S. Jain  
Principal

REPORT OF GUEST LECTURE ON,

**TOPIC - "GPAT and NIPER Guidance Session"**

By – Dr. Nazama Inamdar

DATE- 08 April, 2023

TIME: 10.00 AM TO 01.00 PM



राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी  
Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.  
Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)  
Phone : (020) 20280280, 7447763086, 9422322070

 : [www.rjspmpharmacy.com](http://www.rjspmpharmacy.com) Email: [rjspmcp123@gmail.com](mailto:rjspmcp123@gmail.com)

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Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)  
Phone : (020) 20280280, 7447763086, 9422322070

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**COLLEGE OF PHARMACY**  
GUEST LECTURE ATTENDANCE



Topic- "GPAT Guidance Session" by Dr. Nazma Inamdar

08 04 23  
 Date: / /20....

Class: Final Year B. Pharmacy

ROLL NO.	NAME OF STUDENT	SIGN	ROLL NO.	NAME OF STUDENT	SIGN
401	ANARSE SURAJ SANTOSH	Anarse	441	MAWALE SURAJ ANAND	Suraj
402	BABAR PIYUSH RAVINDRA	PP Babar	442	MAZIRE RUSHIKESH SADHU	Rushikesh
403	BAVALE SAKSHI PRABHAKAR	Kavirat	443	MOHITE SUDESHNA SANTAJJIRAO	S. Mohite
404	BHUSARE KOMAL DATTATRAY	AB	444	NAIKARE SNEHAL SURESH	Snehal
405	BOTE SONAL MARGU	Sonal	445	NEHERE MONIKA NAMDEV	Monika
406	BUCHUDE RESHMA SAVKAR	Buchude	446	NEWASE VAISHNAVI VIJAY	Vaishnavi
407	DAMALE ATHARV ANIL	Atharv	447	PARHAD POOJA VILAS	Parhad
408	DAMSE TRIVENI SURESH	AB	448	PARMESHWAR NILESH DEEPAK	Nilesh
409	DARADE NIKITA PARMESHWAR	N. Darade	449	PATIL SOURABH YUVRAJ	Sourabh
410	DHUMAL ADITYA ANIL	AB	450	PATIL VIJAY SANJAY	Vijay
411	DONGARE MITALI DATTATRAY	Mitali	451	PATOLE SANCHITA RAJARAM	AB
412	DUBEY ISHA AMARNATH	Isha	452	PAWAR SUPRIYA ANANT	Supriya
413	DUNGHAV NAGESHWAR MAHADEV	N. Dunghav	453	PAWARA MANGESH NARSING	Mangesh
414	GADKAR AKSHAY MADHAVRAO	A. Gadkar	454	POTWALE SACHIN NARSING	Sachin
415	GAIKWAD NEHA DATTATRAY	Neha	455	RANPISE OMKAR NAVNATH	Omkar
416	GAIKWAD ONKAR SANJAY	AB	456	RATHOD SHIVAM PADAMSING	Shivam
417	GARGOTE MONIKA SARAJERAO	M. Gargote	457	RODAGE NIKITA SANJAY	N. S. Rodage
418	GAWADE MONIKA RAOSAHEB	Gawade	458	SATHE GANESH SURESH	Ganesh
419	GAWADE PRATIKSHA VITTHAL	P. Gawade	459	SAWANT SAKSHEE VISHWAS	Sakshee
420	GHADGE SAYALI KRISHNAT	Sayali	460	SHETE ANIKET SOMNATH	Aniket
421	GHOLAP SHWETA SHIVAJI	Shweta	461	SHINDE NIVRUTTI LAXMAN	Nivrutti
422	GHULE JAYRAJ	J. Ghule	462	SHINDE RUSHIKESH VIKRAM	Shinde
423	GUNJAL HARSHAD BABASAHEB	H. Gunjal	463	SHINDE SIDDHANT SANJAY	Siddhant
424	HALEMANI SHREEDHAR MALLIKARJUN	Shreedhar	464	SURYAWANSHI SHAILKUMARI VIJAYNATH	Shailkumari
425	HOLE RAHUL DATTATRAY	Rahul	465	THITE CHAITRALI VIJAY	Chitrali
426	JANGLE PRITEE SUDHAKAR	Jangle	466	WAGHMARE SUMIT MAHENDRA	Sumit
427	KADAM ABHAY GORAKH	Kadam	467	WAGHMARE SUMIT SIDDHARATH	Sumit
428	KALJE MANSI PATILBUVA	Mansi			
429	KALJE SWARUPA SATISH	K. Swarupa			
430	KANAWADE CHAITALI LAHANU	Chaitali			
431	KANKALE NAYANA EKNATH	N. Kankale			
432	KANTULE MANJUSHA KALYANRAO	M. Kantule			
433	KOLEKAR PALLAVI BALU	Pallavi			
434	KSHIRSAGAR PRATIK SANTOSH	AB			
435	KURHADE HRISHIKESH DIGAMBAR	H. Kurhade			
436	LAHANE VISHAKHA SHARAD	Vishakha			
437	LANDGE DHEERAJ BAPURAO	AB			
438	LIMKAR RAHUL SHIVAJI	Rahul			
439	LOHAR CHAITALI ATUL	Chaitali			
440	MARGALE ASHWINI SITARAM	A. Margale			

Total no. of students = 60



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S  
**COLLEGE OF PHARMACY**

GUEST LECTURE ATTENDANCE



**TOPIC- " GPAT Guidance Session" by Dr. Nazma Inamdar**

Class: Third Year B. Pharmacy

08/04/2023  
Date: / / 20.23

ROLL NO.	NAME OF STUDENT	SIGN	ROLL NO.	NAME OF STUDENT	SIGN
301	BANKAR DIVYA DATTATRAY	<del>Divya</del>	338	NIGHOT AKSHAY BHAGUJI	AB
302	BIRADAR APOORVA KALIDAS	<del>Apoorva</del>	339	NITNAWARE ANIKET BALU	AB
303	BOCHARE TEJAS PRAMOD	<del>Tej B</del>	340	PANSARE PUJA SURESH	Pujap.
304	DEORE ABHISHEK NARENDRA	Abhishek	341	PARBHANE KALYANI SOPAN	AB
305	DESAI SONALI NANDKUMAR	Sonali	342	PATHAN ERAM FAIYAZ	Eram Faiyaz
306	GADHAVE SAYALI SAMBHAJI	Sayali	343	PATIL DEVESH D	AB
307	GEDAM CHAITANYA SURESH	Chaitanya	344	PATIL PRATIKSHA SUNIL	Pratiksha
308	GHADIGAONKAR SAYALI P	Sayali	345	PATOLE MADHURI R	AB
309	GHAYWAT MAHESH KAILAS	Mahesh	346	PAWALE RUTUJA ARUN	Rutuja
310	GHONGE ROHIT PAPPA	Rohit	347	PAWAR SUDAM MOHAN	Sudam
311	HINGE NIKHIL PANDURANG	Nikhil	348	PHAD RAMESHWAR P	Rameshwar
312	HOLKAR VAIBHAV VISHVNATH	Vaibhav	349	PHIRKE HRUSHIKESH VILAS	AB
313	JADHAV SANKET KRISHNA	AB	350	PINGALE DNYANESHWARI G	Pingale
314	JADHAV SUYASH NANDKUMAR	Suyash	351	RASKAR SAHIL POPAT	AB
315	JAVIR NAMRATA NILKANTH	AB	352	SALVI SHREYAS C	Shreyas
316	JEKATE SAMIKSHA MACHHINDRA	Samiksha	353	SANGOLKAR AJAY	Ajay
317	KALE NEHA KESHAV	Neha	354	SHAIKH WASIM HASSAN	Wasim
318	KALE VIVEK VIKRAM	Vivek	355	SHELKE KUNAL VIJAY	Kunal
319	KAMBLE PRITI RAMDAS	AB	356	SHELKE YASH BALU	Yash
320	KAPADE RESHMA SURYAKANT	Kapade	357	SHINDE SHITAL AJIT	AB
321	KASABALE AKASH SUNIL	AB	358	SHINDE SOMESHWAR S	Someshwar
322	KHAN SAMEER IQBAL	Sameer	359	SHIRSATH RAHUL B	AB
323	KHEDKAR PRATIKSHA S	AB	360	SHIVAGUNDE SOURABH B	Sourabh
324	KHURSADE RAM SUSHANT	Ram	361	TAPKIR SAKSHI RAJARAM	Sakshi
325	KORE PRASANNA BALU	Prasanna	362	TENGLE NISHANT S	Nishant
326	KUDALE DNYANESHWARI ANIL	AB	363	THAKUR OMKAR D	AB
327	KUMBHAR OMKAR NITIN	Omkar	364	THAKUR SARATHI SUNIL	Sarathi
328	LANDGE AKASH BALAJI	Akash	365	SURAJ SANJAY GAIKWAD	Sanjay
329	LOKHANDE ADWAIT ANAND	Adwait	366	SHAIKH TAMANNA M	AB
330	LOMTE KARTIKI ABHIMANYU	AB	367	ALHAT DIP SANJAY	Dip
331	MANE AVANTIKA ASHOK	Avantika	368	BURDE ANUJ LAXMAN	Anuj
332	MANJARE AKANKSHA H	AB	369	PAWALE PRAJAKTA S	AB
333	MEHETRE TUKARAM C	Tukaram	370	CHAVAN BHUSHAN R	Bhushan
334	NAGARE ADITI SUDHAKAR	Aditi	371	HARSHAL SANDIP D	Sandip
335	NANDESHWAR SUBODH SUDESH	Subodh	372	POWAR HARSHADA S	Harshada
336	NAVALE PALLAVI DEVIDAS	Pallavi	373	GIRIRAJ SAMBHAJI G	AB

total no. of students = 52



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Principal

# 11. Summary of Industrial visits

**A  
REPORT ON  
INDUSTRIAL VISIT  
AT  
NULIFE PHARMACEUTICAL**



**ON 21<sup>st</sup> May, 2022**

**BY STUDENTS OF  
FIRST YEAR B. PHARMACY**

**ACCOMPNIED BY**

**Asst.Prof. S.N.Ghodekar, Asst.Prof. S.V.Mane And Asst.Prof.A.Z.Gite**

**ORGANISED BY**

**RJSPM'S COLLEGE OF PHARMACY, DUDULGAON, ALANDI**



**Objective:**

- To build up knowledge.
- To explore students to industrial environment.
- To build industry institute relation and interaction.
- To understand health, safety and environmental aspects in industry.
- To interact with peoples, build contacts for future career advancement.

**Name Of industry: NULIFE PHARMACEUTICAL****Location: MIDC, Pimpri, Pune**

The visit was organized with the prior permission and guidance of Hon. Principal **Dr. K.S.Jain** and HOD of Pharmacy Department Prof. **A.B.Kumbhar**.

*On 21<sup>st</sup> May, 2022 (Saturday) students of RJSPM's Third year B.Pharmacy got good opportunity to visit one of the top pharmaceutical industry of the world "Nulife Pharmaceuticals Ltd". This plant is located at MIDC, Pimpri, Pune. Total 54 students along with 3 faculty members have joined this industrial visit. This plant mainly deals with manufacturing of lotion, ointment, ear drops, ayurvedic and allopathic liquid oral dosage forms and tablets.*



F-2

yani House  
Google

**Pimpri-Chinchwad, Maharashtra, India**  
63, Block F-2, MIDC, Pimpri Colony, Pimpri-Chinchwad,  
Maharashtra 411018, India  
Lat 18.643122°  
Long 73.822592°  
21/05/22 01:02 PM

GPS Map Camera



F-2

yani House  
Google

**Pimpri-Chinchwad, Maharashtra, India**  
63, Block F-2, MIDC, Pimpri Colony, Pimpri-Chinchwad,  
Maharashtra 411018, India  
Lat 18.643128°  
Long 73.822626°  
21/05/22 01:07 PM

GPS Map Camera



*Our college team reached the industry at 10.00 a.m. We met to eminent personalities Mr. Rajesh Jadhav and Mr. Prashant Saste. We had great experience with them. Firstly they introduced Nulife pharmaceuticals to us. This organization is approved by WHO and follows WHO guidelines. They are manufacturing wide range of products as per I.P. They deal in manufacturing of lotion, ointment, ear drops, ayurvedic and allopathic liquid oral dosage form. They mainly interested in export market. They have total 5 products for export market.*

***Nulife Pharmaceuticals, WHO GMP certified plant, ensuring that all products meet the most stringent quality standards.***

## **ABOUT INDUSTRY:**

### **HISTORY:**

Mr. J.A. TRIVEDI the founder established NuLife Pharmaceuticals in the year 1973.

Mr. Trivedi had a rich experience of pharmaceutical marketing.

Mr. Umesh J. Trivedi son of late Mr J A. TRIVEDI, a qualified pharma professional, contributes substantially to lead NuLife Pharmaceuticals towards the successful avenues of growth & development.

Over the period the Company has grown in all directions.

Our product range comprises of more than 60 formulations NuLife has offices in Mumbai & Pune and distribution almost all over India

We are proactive in ensuring that our Company values are widely understood and implemented. These mission, values & vision have played an invaluable role in the success and growth of NuLife Pharmaceuticals.

### **MISSION :**

- To be amongst the top Healthcare Companies.
- To ensure better quality of life for people all over the country by providing the best in healthcare, pharma and allied products, of the highest standards.

## **VISION :**

- Emerge as quality producer, visible, competitive and committed member of global health-care industry.
- Be seen and felt as highly ethical organization.
- Organization is devoted and committed to customer service, customer satisfaction and social responsibility.
- Emerge as one of the benchmarked companies in healthcare industry.

## **Values:**

- We value “All our Employees, Customers, Bankers, Depositors and Suppliers” as our prime assets.
- We believe that “Integrity”, “Honesty”, “Tolerance” and “Patience” are fundamental virtues in business.
- We actively promote “Holistic Human Development” as part of building intellectual capital in our organization.
- We are committed to building culture of “Excellence” and “World-Class” standards through benchmarking and continuous enhancement of our performance standards.

## **Total plant is divided into following sections:**

- Quarantine area
- Manufacturing of Solid dosage form
- Manufacturing of Semisolid dosage form
- Manufacturing of Liquid dosage form
- Packaging area
- Quality control area
- Administration area

- **Quarantine area:**

This area is divided in to two sections, Raw material storage area and weighing area.

After receiving material in quarantine area, it is mark with red tag. Yellow tag is used for under testing materials and green tag is used for passed materials.

- **Manufacturing of Solid dosage form:**

**This area is subdivided in to different section like,**

<b>Sr.No.</b>	<b>Section</b>	<b>Apparatus used</b>
<b>1</b>	Granulation	FBD, V shaped blender, double cone blender
<b>2</b>	Tablet compression	Multistation compression machine, Disintegration tester, friability tester, hardness tester
<b>3</b>	Tablet coating	Semiautomatic tablets coating pan, Spraying gun
<b>4</b>	Capsule filling and inspection area	Automatic capsule filling machine

- **Manufacturing of Semisolid dosage form**

This area is totally dedicated to manufacturing of lotion, ointment, creams.

- **Manufacturing of Liquid dosage form**

This area is totally dedicated to manufacturing of ear drops, eye drops, nasal drops, ayurvedic liquid dosage forms.

- **Packaging area:**

Automatic blister packaging machine is used for packaging of tables and capsule. This area is totally segregated from manufacturing area.

## MARKETED PREPARATION:



Clotrin-B Lotion  
Packing : 15 ml



Salen Capsules  
Packing : 3 x 10



Salen Solution  
Packing : 25 ml



FM Derma Ointment  
Packing : 10 gm



NuNaf Tablets  
Packing: 10×10

## THE ENVIRONMENT PROTECTION, SAFETY & HEALTH POLICY:

The “Nulife Pharmaceuticals” emphasizes full adherence to all Safety, Health and Environment Protection requirements outlined in different National Laws, statutes, regulations, standards and provisions in general as well as in agreed contract requirements.

## AWARDS:

- NuLife Pharmaceuticals has won in the Company’s Silver Jubilee Year 1999 the prestigious “Rajiv Gandhi National Quality Award”, instituted by the Indian Bureau of Standards for the year 1997 along with the Commendation Certificates for 1995 & 1996. The award is considered at par with the best in international quality movement and is similar to Malcolm Baldrige National Quality Award

in the USA and Deming Prize in Japan and so also the European Quality Award.

- We also received the Best Safety performance Award by the Director (Health & Safety) in 1990, 1991 and 1993
- We are the winner of CAG Award for excellence in packaging.
- We are certified by WHO & possess WHO-GMP certificate for our products

### **CAREER OPPORTUNITY:**

Nulife Pharmaceutical gives career opportunity to D. Pharm, B.Pharm, M.Pharm, B.Sc. and M.Sc. students.

### **STUDENTS OPINION:**

We had an industrial visit to Nulife Pharmaceutical, Pimpri. It was a worth watch all the process of manufacturing and packaging. It was our best experience because we got the knowledge about our future working and the way in which the work is carried out. We all would like to thank our teachers.

----- Sanchita Patole

This Industrial visit really made the collaboration between the practical and therotical study. We get to know real time packaging system. How eaxact GMP is followed in industry.

----- Sayali Gadhve

On behalf of management members, teaching staff and students, we take this opportunity to thank the entire team of “Nulife Pharmaceuticals Ltd.” for providing us practical information, for the perfect logistic support and guidance.

**A  
REPORT ON  
INDUSTRIAL VISIT  
AT  
PASSIFLORA LABORATORIES**



**ON 26<sup>th</sup> April, 2022**

**BY STUDENTS OF  
FINAL YEAR B. PHARMACY**

**ACCOMPNIED BY  
PROF. A.B.KUMBHAR AND ASST. PROF. O.H.KOLHE  
AND ASST.PROF.A.Z.GITE**

**ORGANISED BY  
RJSPM'S COLLEGE OF PHARMACY, DUDULGAON, ALANDI**



## Objective:

- To build up knowledge.
- To explore students to industrial environment.
- To build industry institute relation and interaction.
- To understand health, safety and environmental aspects in industry.
- To interact with peoples, build contacts for future career advancement.

**Name Of industry: PASSIFLORA LABORATORIES**

**Location:Ghotawade Phata, Mulshi, Pune**

The visit was organized with the prior permission and guidance of Hon. Principal **Dr.K.S.Jain**.and HOD of Pharmacy Department Prof. **A.B.Kumbhar**.

*On 26<sup>th</sup> April 2022 (Tuesday) students of RJSPM's final year B.Pharmacy got good opportunity to visit one of the top pharmaceutical industry of the world "PASSIFLORA LABORATORIES". This plant is located at Ghotawade Phata, Mulshi, Pune. Total 26 students along with 3 faculty members have joined this industrial visit. This plant mainly deals with manufacturing of lotion, ointment, and liquid dosage forms and tablets.*





GPS Map Camera



**Kasar Amboli, Maharashtra, India**  
GM8H+W9X, Kasar Amboli, Maharashtra 412115, India  
Lat 18.517819°  
Long 73.67879°  
26/04/22 04:02 PM





*Our college team reached the industry at 03.00 p.m. We met to eminent personalities Mr. Pravin Jagtap We had great experience with them. Firstly they introduced PASSIFLORA LABORATORIES to us. This organization is approved by WHO and follows WHO guidelines. They are manufacturing wide range of products as per I.P. They deal in manufacturing of lotion, ointment, and liquid dosage forms and tablets..*

## **ABOUT INDUSTRY:**

## **HISTORY:**

Established in the year 2019, Passiflora is an emerging company that focuses on making body and bath essentials. The company formulates, manufactures and fills a variety of skin and hair care products which nourishes your skin and keep you going all day long. We are a team of enthusiasts who focus on providing effective cosmetic in the hands of end-user.

## **MISSION:**

To manufacture superior beauty products with innovations & to provide a total solution for product development platform for our customers, by providing production capability with the best in class people, processes, and facilities. To offer an agile outsourcing alternative for the global beauty brand customers, by offering excellent quality and diversified services to our clients.

## **VISION:**

We aspire to be a globally admired cosmetics manufacturing company, providing excellent quality products & services that offer original results and quality of life to our customers.

## **Values:**

We are committed to the enduring values of integrity accountability, innovation and flexibility, value creation and social responsibility.

**Total plant is divided into following sections:**

- Quarantine area
- Manufacturing of Semisolid dosage form
- Manufacturing of Liquid dosage form
- Packaging area
- Quality control area
- Administration area

- **Quarantine area:**

This area is divided in to two sections, Raw material storage area and weighing area.

After receiving material in quarantine area, it is mark with red tag. Yellow tag is used for under testing materials and green tag is used for passed materials.

- **Manufacturing of Semisolid dosage form**

This area is totally dedicated to manufacturing of lotion, ointment, creams.

- **Manufacturing of Liquid dosage form**

This area is totally dedicated to manufacturing of ear drops, eye drops, nasal drops, ayurvedic liquid dosage forms.

- **Packaging area:**

Automatic blister packaging machine is used for packaging of tables and capsule. This area is totally segregated from manufacturing area.

### **THE ENVIRONMENT PROTECTION, SAFETY & HEALTH POLICY:**

The “passiflora laboratories” emphasizes full adherence to all Safety, Health and Environment Protection requirements outlined in different National Laws, statutes, regulations, standards and provisions in general as well as in agreed contract requirements.

### **CAREER OPPORTUNITY:**

Passiflora laboratories gives career opportunity to D. Pharm, B.Pharm, M.Pharm, students.

### **STUDENTS OPINION:**

It was fascinating to observe the entire manufacturing and packaging process. It was the finest experience we've ever had since we learned a lot about our future jobs and how they're done. Also we all want to express our gratitude to our professors.

----- Prajakta Agarkar

Industrial visit was very nice. We got an idea about GMP regulations. Also we learn about the whole manufacturing and packing process of the many different products.

----- Ravi Atole

On behalf of management members, teaching staff and students, we take this opportunity to thank the entire team of “passiflora laboratories ltd” for providing us practical information, for the perfect logistic support and guidance.

**A  
REPORT ON  
INDUSTRIAL VISIT  
AT  
CHAKAN LIFE SCIENCES PRIVATE LIMITED**

**ON 26<sup>th</sup> APRIL, 2022**

**BY STUDENTS OF  
FINAL YEAR B. PHARMACY**

**ACCOMPNIED BY  
PROF. A.B. KUMBHAR, ASST.PROF.O.H.KOLHE AND ASST.PROF. A.Z.GITE**

**ORGANISED BY  
RJSPM'S COLLEGE OF PHARMACY, DUDULGAON, ALANDI**



## Objective:

- To build up knowledge.
- To explore students to industrial environment.
- To build industry institute relation and interaction.
- To understand health, safety and environmental aspects in industry.
- To interact with peoples, build contacts for future career advancement.

**Name Of industry: CHAKAN LIFE SCIENCES**

**Location: BHARE, MULSHI, PUNE**

The visit was organized with the prior permission and guidance of Hon. Principal **Dr. K.S.JAIN** and HOD of Pharmacy Department Prof. **A.B.Kumbhar**.

*On 26<sup>th</sup> April, 2022 (Tuesday) students of RJSPM's First year B.Pharmacy got good opportunity to visit one of the top Pharmaceutical Industry "CHAKAN LIFE SCIENCES PRIVATE LIMITED". This plant is located at Bhare, Mulshi, Pune. Total 23 students along with 3 faculty members have joined this industrial visit. This plant mainly deals with manufacturing of medical device/Repacking.*



## **ABOUT INDUSTRY:**

## **HISTORY:**

Chakan Life Sciences Private Limited is a 9 years 6 months old Private Company incorporated on 26<sup>th</sup> April, 2022.

Its registered office is in Pune, Maharashtra, India. The Company's status is Active, and it has filed its Annual Returns and Financial Statements up to 31 Mar 2020 (FY 2019-2020).

## **MISSION:**

- To be amongst the top Healthcare Companies.
- To ensure better quality of life for people all over the country by providing the best in healthcare, Pharma and allied products, of the highest standards.

## **VISION:**

- Emerge as quality producer, visible, competitive and committed member of global health-care industry.
- Be seen and felt as highly ethical organization.
- Organization is devoted and committed to customer service, customer satisfaction and social responsibility.
- Emerge as one of the benchmarked companies in healthcare industry.

## **Values:**

- We value “All our Employees, Customers, Bankers, Depositors and Suppliers” as our prime assets.
- We believe that “Integrity”, “Honesty”, “Tolerance” and “Patience” are fundamental virtues in business.
- We actively promote “Holistic Human Development” as part of building intellectual capital in our organization.
- We are committed to building culture of “Excellence” and “World-Class” standards through benchmarking and continuous enhancement of our performance standards.

**CAREER OPPORTUNITY:**

Chakan Life Science gives career opportunity to D. Pharm, B.Pharm, M.Pharm, B.Sc., M.Sc. students.

**STUDENTS OPINION:**

We had an industrial visit to Chakan Life Science. It was a worth watch all the process of packaging. It was our best experience because we got the knowledge about our future working and the way in which the work is carried out. We all would like to thank our teachers.

----- Ravi Atole

Industrial visit was nice. We got an idea about SOP.

----- Lalit Unde

On behalf of management members, teaching staff and students, we take this opportunity to thank the entire team of “Chakan Life Sciences” for providing us practical information, for the perfect logistic support and guidance.