

**SELF ASSESSMENT REPORT (SAR)**  
**UNDERGRADUATE PHARMACY PROGRAM**  
**(B.Pharmacy)**  
**FIRST TIME ACCREDITATION**

Submitted To



NBCC Place, 4th Floor East Tower, Bhasham Pitamah Marg,  
Pragati Vihar, New Delhi 110003

By



**SNJB's Shriman Sureshdada Jain College of Pharmacy**

Permanently affiliated to Savitribai Phule Pune University  
Recognised under section 2(f) and 12(B) of UGC Act 1956

Approved by PCI and AICTE

Approved Research Centre for Pharmaceutical Sciences

**Neminagar, Chandwad, Dist. Nashik (Maharashtra), India**

Phone No: - 02556- 252529, 253179, Fax:- 02556- 253179

Website: - [www.snjbpharmacy.org](http://www.snjbpharmacy.org)



SNJB's SHRIMAN SURESHDADA JAIN  
**COLLEGE OF PHARMACY**

• Affiliated to University of Pune • Approved by AICTE New Delhi, PCI New Delhi

Ref. No. : SSDJCoPh/NBA/2018-19/171

Date 14/12/2018

To,  
The Member Secretary  
National Board of Accreditation  
NBCC Place, East Tower, 4<sup>th</sup> Floor  
Bhisham Pitamah Marg, Pragati Vihar  
New Delhi 110 003,  
INDIA.

**Sub: Submission of eSelf Assessment Report (eSAR)**

**Ref: File ID No. 28-511-2018-NBA Application ID: 2802-01/03/2018**

Respected Sir/ Madam,

With reference to the subject and reference cited above, herewith we are submitting the Self Assessment Report (eSAR). The above said SAR has been uploaded on the NBA website ([enba.nbaind.org/SAR](http://enba.nbaind.org/SAR)) and also on our college website.

Thanking You Sir,

Yours faithfully,

(Dr. C.D. Upasani)  
**PRINCIPAL**  
SNJB's SHRIMAN SURESHDADA JAIN  
COLLEGE OF PHARMACY, NEMINAGAR  
CHANDWAD (NASHIK)



**SNJB**

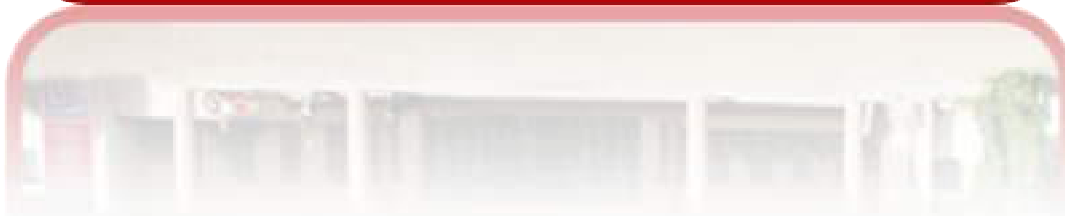
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## SAR Contents

Serial Code and Link to the Item	Item	Page No.
<b>PART A</b>	<b>Institutional Information</b>	<b>03-09</b>
<b>PART B</b>	<b>Criteria Summary</b>	10-11
	<b>Program Level Criteria</b>	<b>12-205</b>
1.	Vision, Mission, Program Educational Objectives	13-18
2.	Program Curriculum and Teaching - Learning Processes	19-92
3.	Course Outcomes and Program Outcomes	93-121
4.	Students Performance	122-133
5.	Faculty Information and Contributions	134-171
6.	Facilities and Technical Support	172-192
7.	Continuous Improvement	193-205
	<b>Institute Level Criteria</b>	<b>206-246</b>
8.	Student Support Systems	207-221
9.	Governance, Institutional Support and Financial Resources	222-246
<b>PART C</b>	<b>Declaration by the Institution</b>	<b>247</b>
	<b>Annexure-I</b>	<b>248-249</b>



## **PART A: Institutional Information**



## PART A: Institutional Information

- 1. Name and Address of the Institution** : SNJBs Shriman Sureshdada Jain College of Pharmacy, Neminagar, Chandwad - 423101.  
Dist: Nashik, MS, India
- 2. Name and Address of the Affiliating University** : Savitribai Phule Pune University,  
Ganeshkhind Pune-411007, MS, India
- 3. Year of Establishment of the Institution** : 1999-2000

**4. Type of Institution :**

University	
Deemed University	
Autonomous	
Affiliated	√
Any Other ( Please Specify)	

**5. Ownership Status :**

Central Government	
State Government	
Grant-in Aid	
Self Financing	√
Trust	√
Society	
Section 25 Company	
Any Other ( Please Specify)	

**Other Academic Institutions of the Trust/Society/etc., if any:**

<b>Name of the Institution(s)</b>	<b>Year of Establishment</b>	<b>Programs of Study</b>	<b>Location</b>
SNJB's Shri.Deepchand Fakirchand Lodha Pharmacy College	1985-1986	D. Pharmacy	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Late Sau.Kantabai Bhavarlalji Jain College of Engineering	2004-2005	B.E	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Late Sau.Kantabai Bhavarlalji Jain College of Engineering	2010-2011	MBA	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Smt. Kanchanbai Babulalji Abad Homeopathic Medical College, Shri.Ratanlalji Premrajji Chordiya Hospital and Bhamashah Shri.Vijaykumarji Devrajji Mehta, Dev-Vijay Post Graduate Institute of Homeopathy & Research Centre	1989-1999	Homoeopathy	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Shri.Hiralal Hastimal Polytechnic ( Diploma Courses)	1983-1984	Polytechnic	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
K.K.H.A. Arts, S.M.G.L. Commerce & S.P.H.J. Science Senior and S.P.D.S. Arts, Commerce & Science Junior College	1928-1929	Arts, Commerce & Science College	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
Late Shri. D.M. Bhansali English Medium School	1996-1997	English Medium School	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Shri Neminath Jain Secondary & Higher Secondary School	1928-1929	Secondary & Higher Secondary School	Neminagar, Chandwad. Pin- 423101. Dist. Nashik MS, India
SNJB's Primary School ( Marathi Medium)	1928-1929	Primary School	Neminagar, Chandwad. Pin- 423101. Dist. MS, India
SNJB's Sau. Leelabai Dalubhau Jain (Jalgaon) D.EL.ED College	2007-2008	Diploma in Elementary Education	Neminagar, Chandwad. Pin- 423101. Dist. MS, India

• **SNJB's Shriman Sureshdada Jain College of Pharmacy**

SNJB's Shriman Suresh Dada Jain College of Pharmacy is an approved college by All India Council of Technical Education (AICTE), New Delhi and Pharmacy Council of India (PCI), New Delhi, Govt. of Maharashtra (Ministry of Higher and Technical

Education) and Directorate of Technical Education, Mumbai and is permanently affiliated to the Savitribai Phule Pune University, Pune. The college was established in year 1999-2000 with intake capacity of 40 students and upgraded to 60 in 2002-2004 for B. Pharmacy course.

Subsequently, M. Pharmacy courses were started in the college in a progressive fashion. M. Pharmacy in Pharmaceutics was started in the year 2008 with an intake of 08 students, M. Pharmacy Pharmaceutical Chemistry was started in the year 2009 with an intake of 18 students then M. Pharmacy Pharmacology in the year 2010 with an intake of 18 students. Presently, the college is giving masters education in pharmacy in Pharmaceutics and Pharmacology with an intake of 15 students in each branch.

The academic year 2011 was the Jewel in a Crown when this college has recognized and approved as Research Centre for Doctoral Research (Ph.D.) by Savitribai Phule, Pune University, Pune. This opened up a new chapter of research & development for our faculty and for the students.

**6. Details of all the programs being offered by the Institution under consideration:**

S. No	Program Name	Year of Start	Intake	Increase in intake, if any	Year of increase	AICTE Approval	Accreditation Status*
1.	B.Pharmacy	1999 - 2000	40	60	2002-2004	1.For Increase in Intake : F.No.740-89-160(P)/ET/99,Dt: 14-06-2002 2. For 2017-18 F.No. Western/1-3322380213/2017 /EOA, Dt : 30-March 2017	Applying first time

**7. Programs to be considered for Accreditation vide this application:**

S. No.	Program Name
1.	B. Pharmacy (B.Pharm)

**8. Total number of employees:****A. Regular \*Faculty and Staff :**

Items		CAY (2017-18)		CAY m1 (2016-17)		CAY m2 (2015-16)	
		Min	Max	Min	Max	Min	Max
Faculty in Pharmacy	M	16	-	17	-	18	-
	F	04	-	03	-	03	-
Faculty in Sciences & Humanity	M	01	NA	NA	NA	NA	NA
	F	NA	NA	NA	NA	NA	NA
Non teaching staff	M	19	-	19	-	19	-
	F	01	-	01	-	01	-

**\*Means** – Full time on roll with prescribed pay scale

*Note:*

*Minimum 75% should be Regular/Full Time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource Source from industry as per AICTE norms and standards.*

*The contractual Faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre and who have taught over consecutive 4 semesters.*

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1



**B. Contractual staff (Not covered in Table – A) Not applicable**

Items		CAY (2017-18)		CAY m1 (2016-17)		CAY m2 (2015-16)	
		Min	Max	Min	Max	Min	Max
Faculty in Pharmacy	M	NA	NA	NA	NA	NA	NA
	F	NA	NA	NA	NA	NA	NA
Faculty in Sciences & Humanity	M	NA	NA	NA	NA	NA	NA
	F	NA	NA	NA	NA	NA	NA
Non teaching staff	M	NA	NA	NA	NA	NA	NA
	F	NA	NA	NA	NA	NA	NA

**9. Total number of Pharmacy students.****A. B. Pharmacy**

Student Numbers	CAY ( 2017-2018)	CAYm1 ( 2016-17)	CAYm2 ( 2015-16)
Total no. of boys	110	112	113
Total no. of girls	151	149	142
Total no. of students	261	261	255

(Instruction: The data may be categorized in tabular form in case institute runs UG, PG and doctoral programs, Please prepare separate table for each level, if applicable)

**B. M. Pharmacy**

Student Numbers	CAY ( 2017-2018)	CAYm1 ( 2016-17)	CAYm2 ( 2015-16)
Total no. of boys	19	21	34
Total no. of girls	20	18	25
Total no. of students	39	39	59

**C. Doctoral Program (Ph.D.)**

Student Numbers	CAY ( 2017-2018)	CAYm1 ( 2016-17)	CAYm2 ( 2015-16)
Total no. of boys	08	01	5
Total no. of girls	02	01	4
Total no. of students	10	02	9

### 11. Vision of the Institution

To foster budding pharmacist for ethical and cultural values along with knowledge, academic excellence and research to serve the humanity at large.

### 12. Mission of the Institution

- ❖ To become centre of excellence in the field of pharmaceutical sciences by providing quality education and training to our students for catering the needs of public health.
- ❖ To equip them with ethical professional practices to enable them in taking up the challenges of technological advancements to contribute meaningfully in economic, social and professional development.
- ❖ To be one of the principal sources of professional manpower for strengthening the pharmaceutical industries and academia in India and abroad.

### 13. Contact Information of the Head of the Institution and NBA coordinator, if designated:

- i. Name: Dr. Chandrashekhar D. Upasani  
Designation: Professor and Principal  
Mobile No: +91 982212007  
Email id: [principalcop@snjb.org](mailto:principalcop@snjb.org)
- ii. NBA coordinator, if designated:  
Name: Dr. Ganesh D. Basarkar  
Designation: Professor  
Mobile No: +91 9765942836  
Email id: [basarkar.gdcop@snjb.org](mailto:basarkar.gdcop@snjb.org)



**PART B: Criteria Summary**

**PART B: Criteria Summary****Name of the program: B. Pharmacy**

<b>Criteria No.</b>	<b>Criteria</b>	<b>Mark/Weightage</b>
<b>Program Level Criteria</b>		
1.	Vision, Mission and Program Educational Objectives	50
2.	Program Curriculum and Teaching – Learning Processes	150
3.	Course Outcomes and Program Outcomes	100
4.	Students' Performance	180
5.	Faculty Information and Contributions	175
6.	Facilities	120
7.	Continuous Improvement	75
<b>Institute Level Criteria</b>		
8.	Student Support Systems	50
9.	Governance, Institutional Support and Financial Resources	100
	<b>Total</b>	<b>1000</b>

**NOTE:** *In the document wherever word 'Semester' has been used, same shall be read as 'Semester or Annual'. The Institutions may use appropriately whichever is applicable to them.*

## **Program Level Criteria**

## **CRITERION 1**

### **Vision, Mission and Program Educational Objectives**

<b>CRITERION 1</b>	<b>Vision, Mission and Program Educational Objectives</b>	<b>50</b>
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## **1. Vision, Mission and Program Educational Objectives (50)**

### **1.1. State the Vision and Mission (5)**

*(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations.)*

#### **VISION:**

To foster budding pharmacist for ethical and cultural values along with knowledge, academic excellence and research to serve the humanity at large.

#### **MISSION:**

- To become centre of excellence in the field of pharmaceutical sciences by providing quality education and training to our students for catering the needs of public health.
- To equip them with ethical professional practices to enable them in taking up the challenges of technological advancements to contribute meaningfully in economic, social and professional development.
- To be one of the principal sources of professional manpower for strengthening the pharmaceutical industries and academia in India and abroad.

### **1.2. State the Program Educational Objectives (PEOs) (5)**

*(State the Program Educational Objectives (3 to 5) of the Program seeking accreditation)*

#### **PROGRAMME EDUCATIONAL OBJECTIVES**

- To imbibe the core and basic knowledge associated with profession of pharmacy.
- To develop entrepreneurship with skills and leadership role to facilitate improvement in health and wellbeing.
- To inculcate in students professional and ethical attitude, lifelong learning habits to make them aware towards current trends, to compete globally by providing able manpower to pharmacy profession.
- Promoting students for developing national and international research and technological activities.

### **1.3. Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders (15)**

*(Describe where (websites, curricula, posters etc.) the Vision, Mission and PEOs are published and detail the process which ensures awareness among internal and external stakeholders with effective process implementation)*

*(Internal stakeholders may include Management, Governing Board Members, faculty, support staff, students etc. and external stakeholders may include employers, industry, alumni, funding agencies, etc.)*

Each effort is made to assure that vision, mission and PEO'S of the college are conveyed effectively to all stakeholders specially, Internal stakeholders and External stakeholders. The Vision, Mission and PEOs are published at

- College website <http://snjb.org/pharmacy>
- Posters and banners in institute premises
- Notice boards
- Principal's cabin
- Practical Record Books
- Placement brochure
- Laboratories
- College premises

#### **Promulgation of Institutes Vision, Mission and PEOs**

All the External and Internal stakeholders are intimated about the Vision, Mission and PEOs. In addition to that the dissemination of the Vision, Mission and PEOs are done in the following process.

- ❖ **Students:** Information about the Vision, Mission and PEOs is executed by delivering in National Anthem, displaying on notice board and communicated to the students by faculty. They are also clarified at the time of joining the institution as a part of induction programme.
- ❖ **Parents:** Parents are clarified during induction programme organized at the joining of their ward and in the college and also explained during parent teacher meetings.
- ❖ **Faculty and staff:** The Vision, Mission and PEOs are circulated to all teaching and non teaching staff members.



- ❖ **Alumni:** Alumni members are encouraged to follow the Vision, Mission and PEOs during alumni meetings and ideas are taken for the efficiency of exertion.
- ❖ **Governing Body:** The Vision, Mission and PEOs of the institute are intimated to the governing body at regular meetings in an academic year and similar will be disseminated to the representative body individuals.
- ❖ **Industry/Academic experts /Employers:** The Vision, Mission and PEOs are circulated among the employers, academic and Industry experts.
- ❖ **Professional Bodies:** While organizing events under professional bodies, the events, brochures are designed to contain the institute's Vision, Mission and PEOs which are sent to the professional bodies.

#### **1.4. State the process for defining the Vision & Mission and PEOs of the Program (10)**

*(Articulate the process for defining the Vision, Mission and PEOs of the Program)*

The institute decided the vision and mission through a consultative process involving the stakeholders of the institute, such as Management, Parents, Students, Alumni, Faculty and Employer as shown in Figure 1.1. In establishing the Vision and Mission of the institute, the following steps were followed:

**Step 1:** Vision and Mission of the SNJB organization were taken as an origin.

**Step 2:** Views were taken from various stakeholders of the college such as faculty, management, students, parents, alumni as well as programme coordinator and departmental heads.

**Step 3:** The accepted views were analyzed and reviewed to check the consistency with the Vision and Mission of the Institute.



Figure 1.1

**1.5. Establish consistency of PEOs with Mission of the Institute (15)**

*(Generate a "Mission of the Institute – PEOs matrix" with justification and rationale of the mapping)*

Our Program Educational Objectives are highly consistent with our Mission Statements to produce theoretically and practically competent pharmacists with research motivation, continuous learning capabilities and high ethical standards.

PEO Statements		M1	M2	M3
PEO 1	To imbibe the core and basic knowledge associated with profession of pharmacy	3	3	3
PEO 2	To develop entrepreneurship with skills and leadership role to facilitate improvement in health and wellbeing	2	2	2
PEO 3	To inculcate in students professional and ethical attitude, lifelong learning habits to make them aware towards current trends, to compete globally by providing able manpower to pharmacy profession.	3	3	3
PEO 4	Promoting students for developing national and international research and technological activities	1	3	2

**Justification:**

- PEO1 is highly consistent with all the mission components. It is justified through practical and theory sessions, good University results, placement records, expert lectures, Seminars, research grants, entrance exam results, higher education ratio of students.
- PEO2 is consistent with all the mission components. It is justified through placement records, entrepreneurship record, higher education records, product development, which helps in building leadership quality of students.
- PEO3 is highly consistent with all the mission components. It is justified through co-curricular activities such as health campaigns and blood donation camps, awareness rally, NPW celebration, Avishkar participation, NSS camps, Gandhi exams, art of living yoga, establishment of student development cell, etc
- PEO4 is consistent with all the mission components Research Paper Presentations, various case studies, tech-fests, workshops, participation in Avishkar.

**Note:**

*M1, M2, ..., Mn are distinct elements of Mission statement. Enter correlation levels 1, 2 or 3 as defined below:*

*1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)*

*If there is no correlation, put “-”*

**Note:** *In this document wherever the term ‘Process’ has been used its meaning is process formulation, notification and implementation.*

**CRITERION 2**  
**Program Curriculum and**  
**Teaching–Learning Processes**

<b>CRITERION 2</b>	<b>Program Curriculum and Teaching –Learning Processes</b>	<b>150</b>
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## 2.1. Program Curriculum (40)

### 2.1.1 Delivery of Syllabus Contents and compliance of the curriculum for attainment of POs (10)

*(State the contents of the syllabus; about the course/learning material/content/laboratory experiments/projects etc. also mention identified curriculum gaps, if any)*

**Note:** In case all POs are being demonstrably met through University Curriculum then 2.1.2 will not be applicable and the weightage of 2.1.1 will be 30.

#### About the Course:

1. The curriculum of Undergraduate program in Pharmacy (B. Pharmacy) is provided by the Savitribai Phule Pune University, Pune, under faculty of Science and Technology (formerly known as faculty of Pharmaceutical Sciences). It is a four year degree program conducted in semesters.
2. Currently Credit and Grading Based Semester System is followed from academic year 2015-2016. Semester pattern was followed from academic year from 2013-2015 with total 8 semester (2 semesters in a year).
3. As per Credit and Grading Based Semester System, the percentage of marks for semester end examination and internal assessment is 60% and 40% respectively. As per Semester pattern, the percentage of marks for semester end examination and internal assessment is 70% and 30% respectively.
4. Syllabus specifies number of theory lecturers and practical in each course.
5. The Teaching & Examination Scheme specifies the duration and maximum marks of both Internal and External Theory and Practical examinations.
6. As per curriculum :
  - a. The internal assessment exam constitutes continuous assessment for both theory & practical conducted separately by the Institute.
  - b. The external exam constitutes end semester examination comprising of theory and practical conducted separately by Savitribai Phule Pune University, Pune.
7. Course attainments are calculated after completion of the end semester examination and Program outcome attainments are calculated after completion of all the course attainment of each semester.

8. During the assessment years ( 2014-15, 2015-16 and 2016-17) the institution was following three course patterns for undergraduate program (B. Pharmacy) prescribed by Savitribai Phule Pune University, Pune.

**AY 2014-15**

<b>Year</b>	<b>Semester</b>	<b>Course Pattern</b>
First	I	2013
First	II	2013
Second	III	2013
Second	IV	2013
Third	Annual	2008
Final	Annual	2008

**AY 2015-16**

<b>Year</b>	<b>Semester</b>	<b>Course Pattern</b>
First	I	2015
First	II	2015
Second	III	2013
Second	IV	2013
Third	V	2013
Third	VI	2013
Final	Annual	2008

**AY 2016-17**

<b>Year</b>	<b>Semester</b>	<b>Course Pattern</b>
First	I	2015
First	II	2015
Second	III	2015
Second	IV	2015
Third	V	2013
Third	VI	2013
Final	VII	2013
Final	VIII	2013

• Feedback form for Delivery of Syllabus Content



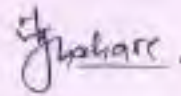
	SNJB's <b>SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY,</b> JAIN GURUKUL, NEMINAGAR, ATP, CHANDWAD, NASHIK-423 101																
<b>Delivery of Syllabus Contents</b>																	
Academic Year: 2016-17				Name of Program: B. Pharmacy				Semester: VII				Course: med-chem IB					
Pattern: 2013				Name of Faculty Member: SHAHARZ H.V.				Student Name: WAHUNJI IS				Roll No.:					
Grades: Excellent: 1 Good: 2 Average: 3 Poor: 4																	
Ch. No.	Name of Topic/recommended Hours as per SPPU	Q.1. Explanation/ Presentation by Faculty				Q.2. Depth of Topic taught by faculty				Q.3. Time required for completion of topic as per SPPU norms				Q.4. Overall completion of topic as per SPPU			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	Synth. Antibacterial	✓				✓					✓			✓			
2	Antibacterial	✓				✓					✓			✓			
3	Antimicrobial	✓					✓				✓			✓			
4	Antibiotic	✓					✓				✓			✓			
5	Antibiotic	✓					✓				✓			✓			
6	Antibiotic	✓					✓				✓			✓			
7	Horamones		✓				✓				✓				✓		
8	Steroids	✓				✓					✓			✓			
9																	
10																	
 Sign of Student:				 Sign of Faculty:													

Figure 1: Feedback form for Delivery of Syllabus Content

**Table 1: Contents of the Syllabus and Program Outcomes****AY 2014-15****Semester: I / 2014-15 [Pattern 2013]**

Academic Year: 2014-15											Pattern: 2013	
Semester: I												
Class: First Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.1.1 T	Pharmaceutics- I	√	√	√	√	--	√	√	--	√	--	√
1.1.1 P	Pharmaceutics- I	√	√	√	√	--	√	√	--	√	--	√
1.1.2 T	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.2 P	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.3 T	Pharmaceutical Inorganic Chemistry	√	√	√	--	--	--	√	√	√	--	√
1.1.3 P	Pharmaceutical Inorganic Chemistry	√	√	--	√	--	--	√	√	√	--	√
1.1.4 T	Pharmaceutical Organic Chemistry-I	√	--	--	√	--	√	√	--	√	√	√
1.1.4 P	Pharmaceutical Organic Chemistry-I	√	√	--	√	--	√	√	--	√	--	√
1.1.5 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.5 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.6 T	Communication and soft skill development	√	√	--	√	--	√	--	√	--	--	√



**Semester: II / 2014-15 [Pattern 2013]**

Academic Year: 2014-15						Pattern: 2013						
Semester: II												
Class: <b>First Year B. Pharm.</b>												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.2.1 T	Pharmaceutics- II	√	√	√	√	--	√	--	--	--	--	√
1.2.2 T	Dosage form design	√	√	√	√	--	√	√	--	√	√	√
1.2.2 P	Dosage form design	√	√	√	√	--	√	√	--	√	√	√
1.2.3 T	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.3 P	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.4 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.4 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.5 T	Pharmacognosy	√	--	--	--	--	--	--	√	√	√	√
1.2.5 P	Pharmacognosy	√	√	--	√	--	--	--	√	√	√	√
1.2.6 T	Pharmaceutical Analysis I	√	√	√	--	--	√	--	√	√	√	√
1.2.6 P	Pharmaceutical Analysis I	√	√	√	--	--	√	--	√	√	√	√

**Semester: III / 2014-15 [Pattern 2013]**

Academic Year: 2014-15						Pattern: 2013						
Semester: III												
Class: <b>Second Year B. Pharm.</b>												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
2.3.1 T	Physical Pharmaceutics- I	√	√	√	√	--	√	√	√	√	--	√
2.3.1 P	Physical Pharmaceutics- I	√	√	√	√	--	√	--	√	√	--	√
2.3.2 T	Pharmaceutical Microbiology	√	--	--	--	--	√	√	--	√	--	√
2.3.2 P	Pharmaceutical Microbiology	√	√	--	--	--	√	--	--	√	--	√
2.3.3 T	Pharmaceutical Biochemistry	√	√	--	--	--	√	--	√	√	--	√
2.3.3 P	Pharmaceutical Biochemistry	√	√	--	--	--	√	--	√	√	--	√
2.3.4 T	Pharmaceutical Organic Chemistry-III	√	√	--	--	--	--	--	--	--	--	√
2.3.4 P	Pharmaceutical Organic Chemistry-III	√	√	√	--	--	√	√	√	√	--	√
2.3.5 T	Pharmacology-I	√	--	--	--	--	√	--	√	√	√	√
2.3.6 T	Pharmacognosy & Phytochemistry - I	√	--	√	√	--	√	--	--	√	--	√
2.3.6 P	Pharmacognosy & Phytochemistry - I	√	--	√	√	--	√	--	--	√	--	√

**Semester: IV / 2014-15 [Pattern 2013]**

Academic Year: 2014-15						Pattern: 2013						
Semester: IV												
Class: Second Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
2.4.1 T	Physical Pharmaceutics- II	√	√	√	√	--	√	--	--	--	--	√
2.4.1 P	Physical Pharmaceutics- II	√	√	√	√	--	√	--	√	--	--	√
2.4.2 T	Pathophysiology & Clinical Biochemistry	√	√	√	√	--	√	--	√	√	√	√
2.4.2 P	Pathophysiology & Clinical Biochemistry	√	√	√	√	√	√	√	√	√	√	√
2.4.3 T	Pharmaceutical Organic Chemistry-IV	√	√	√	√	√	--	--	√	√	√	√
2.4.3 P	Pharmaceutical Organic Chemistry-IV	√	√	--	--	--	--	--	--	--	--	√
2.4.4 T	Pharmaceutical Analysis-II	√	√	√	-	-	--	√	√	--	--	√
2.4.4 P	Pharmaceutical Analysis-II	√	√	√	-	√	√	√	√	√	-	√
2.4.5 T	Pharmacognosy & Phytochemistry – II	√	--	√	√	--	√	--	--	√	--	√
2.4.5 P	Pharmacognosy & Phytochemistry - II	√	--	√	√	--	√	--	--	√	--	√
2.4.6 T	Pharmaceutical Engineering	√	--	√	--	--	√	--	--	--	--	√

**Class: Third Year B. Ph. / 2014-15 [Annual Pattern 2008]**

Academic Year: 2014-15						Pattern: 2008						
Class: Third Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
3.1 T	Pharmaceutics -II	√	√	√	√	--	√	--	--	--	--	√
3.1 P	Pharmaceutics -II	√	√	√	√	--	√	--	--	--	--	√
3.2 T	Pharmaceutical Biotechnology	√	--	--	√	--	√	√	--	--	√	√
3.3 T	Medicinal Chemistry -I	√	--	√	√	--	√	--	√	--	--	√
3.3 P	Medicinal Chemistry -I	√	√	√	--	√	√	√	√	--	--	√
3.4 T	Pharmaceutical Analysis-II	√		√	--	--	--	--	√	--	√	√
3.4 P	Pharmaceutical Analysis-II	√	√	√	--	√	√	√	√	√	√	√
3.5 T	Pharmacology-II	√	√	√	√	√	√	√	√	√	√	√
3.5 P	Pharmacology-II	√	√	√	√	√	√	√	√	√	√	√
3.6 T	Pharmacognosy-II	√	--	--	√	--	--	√	√	√	√	√
3.6 P	Pharmacognosy-II	√	√	√	√	--	--	√	√	√	√	√
3.7 T	Pharmaceutical Business Management	√	√	√	--	√	√	√	√	--	--	√

**Class: Final Year B. Ph. / 2014-15 [Annual Pattern 2008]**

Academic Year: 2014-15						Pattern: 2008						
Class: Final Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
4.1 T	Pharmaceutics -III	√	--	√	√	--	√	√	√	√	√	√
4.1 P	Pharmaceutics -III	√	√	√	--	√	√	--	√	√	√	√
4.2 T	Biopharmaceutics and Pharmacokinetics	√	√	√	--	√	√	√	√	--	--	√
4.3 T	Medicinal Chemistry –II	√	--	√	√	--	√	--	√	--	--	√
4.3 P	Medicinal Chemistry –II	√	√	√	--	√	√	√	√	--	--	√
4.4 T	Pharmaceutical Analysis-III	√	--	√	--	--	√	√	√	--	--	√
4.4 P	Pharmaceutical Analysis-III	√	√	√	--	√	√	√	√	√	√	√
4.5 T	Pharmacology-III	√	--	√	√		√	--	√	√	--	√
4.5 P	Pharmacology-III	√	√	√	--	√	√	--	--	--	--	√
4.6 T	Pharmacognosy-III	√	√	√	√	--	√	--	--	√	√	√
4.6 P	Pharmacognosy-III	√	√	√	√	--	√	--	--	√	√	√
4.7 T	Pharmaceutical Jurisprudence	√	√	--	--	--	√	√	√	√	--	√

AY 2015-16

Semester: I / 2015-16 [Semester Pattern 2015]

Academic Year: 2015-16											Pattern:2015	
Semester: I												
Class: First Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.1.1 T	Pharmaceutics- I	√	√	√	√	√	√	--	√	√	--	√
1.1.1 P	Pharmaceutics- I	√	√	√	√	√	√	--	√	√	--	√
1.1.2 T	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.2 P	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.3 T	Pharmaceutical Inorganic Chemistry	√	√	--	--	--	√	--	√	√	--	√
1.1.3 P	Pharmaceutical Inorganic Chemistry	√	√	√	--	--	√	√	√	√	--	√
1.1.4 T	Pharmaceutical Organic Chemistry-I	√	√	--	√	--	√	√	--	√	--	√
1.1.4 P	Pharmaceutical Organic Chemistry-I	√	√	--	√	--	√	√	--	√	--	√
1.1.5 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.5 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.6 T	Communication and soft skill development	√	√	--	√	--	√	--	√	--	--	√

**Semester: II / 2015-16 [Semester Pattern 2015]**

Academic Year: <b>2015-16</b>						Pattern: <b>2015</b>						
Semester: <b>II</b>												
Class: <b>First Year B. Pharm.</b>												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.2.1 T	Pharmaceutics- II	√	√	√	√	--	√	--	--	--	--	√
1.2.2 T	Dosage form design	√	√	√	√	--	√	√	--	√	√	√
1.2.2 P	Dosage form design	√	√	√	√	--	√	√	--	√	√	√
1.2.3 T	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.3 P	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.4 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.4 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.5 T	Pharmacognosy	√	--	--	√	--	√	√	√	√	√	√
1.2.5 P	Pharmacognosy	√	√		√	--	--	--	√	√	√	√
1.2.6 T	Pharmaceutical Analysis I	√	√	√	--	--	√	--	√	√	√	√
1.2.6 P	Pharmaceutical Analysis I	√	√	√	--	√	√	--	√	√	√	√

**Semester: III / 2015-16 [Semester Pattern 2013]**

Academic Year: 2015-16						Pattern: 2013						
Semester: III												
Class: Second Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
2.3.1 T	Physical Pharmaceutics-I	√	√	√	√	--	√	√	--	--	--	√
2.3.1 P	Physical Pharmaceutics- I	√	√	√	√	--	√	√	√	--	--	√
2.3.2 T	Pharmaceutical Microbiology	√	--	--	--	--	√	√	--	√	--	√
2.3.2 P	Pharmaceutical Microbiology	√	√	--	--	--	√	--	--	√	--	√
2.3.3 T	Pharmaceutical Biochemistry	√	√	--	--	--	√	--	√	√	--	√
2.3.3 P	Pharmaceutical Biochemistry	√	√	--	--	--	√	--	√	√	--	√
2.3.4 T	Pharmaceutical Organic Chemistry-III	√	√	--	--	√	--	--	--	--	--	√
2.3.4 P	Pharmaceutical Organic Chemistry-III	√	√	√	--	--	--	√	√	√	√	√
2.3.5 T	Pharmacology-I	√	--	--	--	--	√	--	√	√	√	√
2.3.6 T	Pharmacognosy & Phytochemistry - I	√	--	√	√	--	√	--	--	√	--	√
2.3.6 P	Pharmacognosy & Phytochemistry - I	√	--	√	√	--	√	--	--	√	√	√



**Semester: IV / 2015-16 [Semester Pattern 2013]**

Academic Year: <b>2015-16</b>						Pattern: <b>2013</b>						
Semester: <b>IV</b>												
Class: <b>Second Year B. Pharm.</b>												
<b>Course Code</b>	<b>Course</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
2.4.1 T	Physical Pharmaceutics- II	√	√	√	√	--	√	--	--	--	--	√
2.4.1 P	Physical Pharmaceutics- II	√	√	√	√	--	√	--	√	--	--	√
2.4.2 T	Pathophysiology & Clinical Biochemistry	√	√	√	√	--	√	--	√	√	√	√
2.4.2 P	Pathophysiology & Clinical Biochemistry	√	√	√	√	√	√	√	√	√	√	√
2.4.3 T	Pharmaceutical Organic Chemistry-IV	√	√	--	--	--	--	--	--	--	--	√
2.4.3 P	Pharmaceutical Organic Chemistry-IV	√	√	√	√	--	--	√	√	√	√	√
2.4.4 T	Pharmaceutical Analysis-II	√	--	√	√	--	√	--	--	√	--	√
2.4.4 P	Pharmaceutical Analysis-II	√	--	√	√	--	√	--	--	--	--	√
2.4.5 T	Pharmacognosy & Phytochemistry – II	√	--	√	√	--	√	--	--	√	--	√
2.4.5 P	Pharmacognosy & Phytochemistry - II	√	√	√	√	--	√	--	--	√	--	√
2.4.6 T	Pharmaceutical Engineering	√	--	√	--	--	√	--	--	--	--	√

**Semester: V / 2015-16 [Semester Pattern 2013]**

Academic Year: 2015-16						Pattern: 2013						
Semester: V												
Class: Third Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
3.5.1 T	Industrial Pharmacy-I	√	√	√	√	--	√	--	--	--	--	√
3.5.1 P	Industrial Pharmacy-I	√	√	√	√	--	√	--	--	--	--	√
3.5.2 T	Pharmaceutical Analysis- III	√	--	--	--	--	--	--	√	--	√	√
3.5.2 P	Pharmaceutical Analysis- III	√	√	√	--	√	--	√	√	√	√	√
3.5.3 T	Medicinal Chemistry-I	√	--	√	√	--	√	--	√	--	--	√
3.5.3 P	Medicinal Chemistry-I	√	√	√	--	√	√	√	√	--	--	√
3.5.4 T	Pharmacology-II	√	√	√	√	√	√	√	√	√	√	√
3.5.4 P	Pharmacology-II	√	√	√	√	√	√	√	√	√	√	√
3.5.5 T	Analytical Pharmacognosy & Extraction Technology	√	--	√	√	--	√	--	--	--	--	√
3.5.5 P	Analytical Pharmacognosy & Extraction Technology	√	--	--	--	--	√	--	--	--	--	√
3.5.6 T	Pharmaceutical Business Management & Disaster Management	√	√	√	--	√	√	√	√	--	√	√
3.5.7 T	Active Pharmaceutical Ingredients Technology	√	--	√	√	--	√	--	--	√	√	√

**Semester: VI / 2015-16 [Semester Pattern 2013]**

Academic Year: 2015-16		Pattern: 2013										
Semester: VI												
Class: Third Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
3.6.1 T	Industrial Pharmacy-II	√	√	√	--	--	√	--	--	--	--	√
3.6.1 P	Industrial Pharmacy-II	√	√	√	--	--	√	--	--	--	--	√
3.6.2 T	Pharmaceutical Analysis- IV	√	--	√	--	--	√	--	√	--	--	√
3.6.2 P	Pharmaceutical Analysis- IV	√	√	√	--	√	--	√	√	--	√	√
3.6.3 T	Medicinal Chemistry-II	√	--	√	√	--	√		√	--	--	√
3.6.3 P	Medicinal Chemistry-II	√	√	√	--	√	√	√	√	--	--	√
3.6.4 T	Pharmacology-III	√	√	√	√	√	√	√	√	√	√	√
3.6.4 P	Pharmacology-III	√	√	√	√	√	√	√	√	√	√	√
3.6.5 T	Natural Product Chemistry	√	--	--	√	--	--	√	√	√	√	√
3.6.5 P	Natural Product Chemistry	√	√	√	√	--	--	√	√	√	√	√
3.6.6 T	Bioorganic Chemistry & Drug Design	√	--	--	--	--	--	--	--	--	--	√
3.6.7 T	Pharmaceutical Biotechnology	√	--	--	--	--	√	√	√	--	√	√

**Class: Final Year B. Ph. / 2015-16 [Annual Pattern 2008]**

Academic Year: 2015-16						Pattern: 2008						
Class: Final Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
4.1 T	Pharmaceutics -III	√	--	√	√	--	√	√	√	√	√	√
4.1 P	Pharmaceutics -III	√	√	√	--	√	√	--	√	√	√	√
4.2 T	Biopharmaceutics and Pharmacokinetics	√	√	√	--	√	√	√	√	--	--	√
4.3 T	Medicinal Chemistry –II	√	--	--	√	--	√	--	--	√	--	√
4.3 P	Medicinal Chemistry –II	√	√	√	--	--	√	√	√	√	√	√
4.4 T	Pharmaceutical Analysis-III	√	--	√	--	--	√	√	√	--	--	√
4.4 P	Pharmaceutical Analysis-III	√	√	√	--	√	√	√	√	√	√	√
4.5 T	Pharmacology-III	√	--	√	√	--	√	--	√	√	--	√
4.5 P	Pharmacology-III	√	√	√	--	√	√	--	--	--	--	√
4.6 T	Pharmacognosy-III	√	√	√	√	√	√	--	--	√	√	√
4.6 P	Pharmacognosy-III	√	√	√	√	√	√	--	--	√	√	√
4.7 T	Pharmaceutical Jurisprudence	√	√	--	--	--	√	√	√	√	--	√

AY 2016-17

Semester: I / 2016-17 [Semester Pattern 2015]

Academic Year: 2016-17		Pattern:2015										
Semester: I												
Class: First Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.1.1 T	Pharmaceutics- I	√	√	√	√	√	√	--	√	√	--	√
1.1.1 P	Pharmaceutics- I	√	√	√	√	√	√	--	√	√	--	√
1.1.2 T	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.2 P	Modern Dispensing Practices	√	√	√	√	√	√	√	√	√	√	√
1.1.3 T	Pharmaceutical Inorganic Chemistry	√	√	--	--	--	√	--	√	√	--	√
1.1.3 P	Pharmaceutical Inorganic Chemistry	√	√	√	--	--	√	--	√	√	-	√
1.1.4 T	Pharmaceutical Organic Chemistry-I	√	--	--	√	--	√	√	--	√	√	√
1.1.4 P	Pharmaceutical Organic Chemistry-I	√	√	--	√	--	√	√	--	√	--	√
1.1.5 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.5 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.1.6 T	Communication and soft skill development	√	√	--	√	--	√	--	√	--	--	√

**Semester: II / 2016-17 [Semester Pattern 2015]**

Academic Year: 2016-17						Pattern:2015						
Semester: II												
Class: First Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
1.2.1 T	Pharmaceutics- II	√	√	√	√	--	√	--	--	--	--	√
1.2.2 T	Dosage form design	√	√	√	√	--	√	√	--	√	√	√
1.2.2 P	Dosage form design	√	√	√	√		√	√		√	√	√
1.2.3 T	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.3 P	Pharmaceutical Organic Chemistry-II	√	√	--	√	--	√	√	--	√	--	√
1.2.4 T	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.4 P	Human Anatomy & Physiology-I	√	√	√	√	√	√	√	√	√	√	√
1.2.5 T	Pharmacognosy	√	--	--	--	--	--	--	√	√	√	√
1.2.5 P	Pharmacognosy	√	√	--	√	--	--	--	√	√	√	√
1.2.6 T	Pharmaceutical Analysis I	√	√	√	--	--	√	--	√	√	√	√
1.2.6 P	Pharmaceutical Analysis I	√	√	√	--	√	√	--	√	√	√	√

**Semester: III / 2016-17 [Semester Pattern 2015]**

Academic Year: <b>2016-17</b>		Pattern: <b>2015</b>										
Semester: <b>III</b>												
Class: <b>Second Year B. Pharm.</b>												
<b>Course Code</b>	<b>Course</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
2.3.1 T	Physical Pharmaceutics- I	√	√	√	√	--	√	√	--	--	--	√
2.3.1 P	Physical Pharmaceutics- I	√	√	√	√	--	√	--	√	--	--	√
2.3.2 T	Pharmaceutical Microbiology	√	--	--	--	--	√	√	--	√	--	√
2.3.2 P	Pharmaceutical Microbiology	√	√	--	--	--	√	--	--	√	--	√
2.3.3 T	Pharmaceutical Biochemistry	√	√	√	--	--	√	--	√	√	--	√
2.3.3 P	Pharmaceutical Biochemistry	√	√	--	--	--	√	--	--	√	--	√
2.3.4 T	Pharmaceutical Organic Chemistry-III	√	√	--	--	--	--	--	--	--	--	√
2.3.4 P	Pharmaceutical Organic Chemistry-III	√	√	√	√	--	--	√	√	--	√	√
2.3.5 T	Pharmacology-I	√	--	--	--	--	√	--	--	--	--	--
2.3.6 T	Pharmacognosy & Phytochemistry - I	√	--	√	√	--	√	--	--	√	--	√
2.3.6 P	Pharmacognosy & Phytochemistry - I	√	√	√	√	--	√	--	--	√	√	√

**Semester: IV / 2016-17 [Semester Pattern 2015]**

Academic Year: 2016-17						Pattern: 2015						
Semester: IV												
Class: Second Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
2.4.1 T	Physical Pharmaceutics-II	√	√	√	√	--	√	--	--	--	--	√
2.4.1 P	Physical Pharmaceutics-II	√	√	√	√	--	√	--	√	--	--	√
2.4.2 T	Pathophysiology & Clinical Biochemistry	√	√	√	√	--	√	--	√	√	√	√
2.4.2 P	Pathophysiology & Clinical Biochemistry	√	√	--	--	--	√	--	--	√	--	√
2.4.3 T	Pharmaceutical Organic Chemistry-IV	√	--	--	--	--	--	--	--	--	--	√
2.4.3 P	Pharmaceutical Organic Chemistry-IV	√	√	√	√	--	--	√	√	√	--	√
2.4.4 T	Pharmaceutical Analysis-II	√	√	√	--	--	--	√	√	√	--	√
2.4.4 P	Pharmaceutical Analysis-II	√	√	--	√	--	--	√	√	√	--	√
2.4.5 T	Pharmacognosy & Phytochemistry - II	√	--	√	√	--	√	--	--	√	--	√
2.4.5 P	Pharmacognosy & Phytochemistry - II	√	√	√	√	--	√	--	--	√	--	√
2.4.6 T	Pharmaceutical Engineering	√	--	√	--	--	√	--	--	--	--	√



**Semester: V / 2016-17 [Semester Pattern 2013]**

Academic Year: <b>2016-17</b>						Pattern: <b>2013</b>						
Semester: <b>V</b>												
Class: <b>Third Year B. Pharm.</b>												
<b>Course Code</b>	<b>Course</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
3.5.1 T	Industrial Pharmacy-I	√	√	√	√	--	√	--	--	--	--	√
3.5.1 P	Industrial Pharmacy-I	√	√	√	√	--	√	--	--	--	--	√
3.5.2 T	Pharmaceutical Analysis- III	√	--	--	--	--	--	--	√	--	√	√
3.5.2 P	Pharmaceutical Analysis- III	√	√	√	--	√	--	√	√	√	√	√
3.5.3 T	Medicinal Chemistry-I	√	--	√	√	--	√		√	--	--	√
3.5.3 P	Medicinal Chemistry-I	√	√	√	--	√	√	√	√	--	--	√
3.5.4 T	Pharmacology-II	√	--	√	--	√	√		√	√	--	√
3.5.4 P	Pharmacology-II	√	√	√	√	√	--	√	--	--	--	√
3.5.5 T	Analytical Pharmacognosy & Extraction Technology	√	--	--	--	--	√	--	--	--	--	√
3.5.5 P	Analytical Pharmacognosy & Extraction Technology	√	--	--	--	--	√	--	--	--	--	√
3.5.6 T	Pharmaceutical Business Management & Disaster Management	√	√	√	--	√	√	√	√	--	--	√
3.5.7 T	Active Pharmaceutical Ingredients Technology	√	--	√	√	--	√	--	--	√	√	√

**Semester: VI / 2016-17 [Semester Pattern 2013]**

Academic Year: 2015-16						Pattern: 2013						
Semester: VI												
Class: Third Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
3.6.1 T	Industrial Pharmacy-II	√	√	√	--	--	√	--	--	--	--	√
3.6.1 P	Industrial Pharmacy-II	√	√	√	--	--	√	--	--	--	--	√
3.6.2 T	Pharmaceutical Analysis- IV	√	--	√	--	--	√	--	√	--	--	√
3.6.2 P	Pharmaceutical Analysis- IV	√	√	√	--	√	--	√	√	--	--	√
3.6.3 T	Medicinal Chemistry-II	√	--	√	√	--	√	--	--	--	--	√
3.6.3 P	Medicinal Chemistry-II	√	√	√	--	√	√	√	√	--	--	√
3.6.4 T	Pharmacology-III	√	--	√	--	√	√	--	√	√	--	√
3.6.4 P	Pharmacology-III	√	√	√	√	√	--	√	--	--	--	√
3.6.5 T	Natural Product Chemistry	√	--	--	√	--	--	√	√	√	√	√
3.6.5 P	Natural Product Chemistry	√	√	√	√	--	--	√	√	√	√	√
3.6.6 T	Bioorganic Chemistry & Drug Design	√	--	--	--	--	--	--	--	--	--	√
3.6.7 T	Pharmaceutical Biotechnology	√	--	√	√	--	√	√	--	√	√	√

**Semester: VII / 2016-17 [Semester Pattern 2013]**

Academic Year: 2016-17						Pattern: 2013						
Semester: VII												
Class: Final Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
4.7.1 T	Sterile Products	√	--	√	√	--	√	--	--	√	--	√
4.7.1 P	Sterile Products	√	--	--	√	--	√	--	--	√	--	√
4.7.2 T	Pharmaceutical Analysis- V	√	√	√	--	--	√	--	√	--	√	√
4.7.2 P	Pharmaceutical Analysis- V	√	√	√	--	√	√	√	√	√	--	√
4.7.3 T	Medicinal Chemistry-III	√	--	--	√	--	√	√	√	√	--	√
4.7.3 P	Medicinal Chemistry-III	√	√	--	√	√	√	√	√	√	√	√
4.7.4 T	Pharmacology-IV	√	√	√	√	--	√	√	√	√	√	√
4.7.4 P	Pharmacology-IV	√	√	√	√	--	√	√	√	√	√	√
4.7.5 T	Natural Drug Technology	√	--	√	√	--	√	--	--	√	--	√
4.7.5 P	Natural Drug Technology	√	√	√	√	√	√	--	--	√	--	√
4.7.6 T	Bio-pharmaceutics & Pharmacokinetics	√	√	√	--	√	√	√	√	--	--	√
4.7.7 T	Pharmaceutical Jurisprudence	√	√	--	√	--	√	√	√	√	--	√

**Semester: VIII / 2016-17 [Semester Pattern 2013]**

Academic Year: 2016-17						Pattern: 2013						
Semester: VIII												
Class: Final Year B. Pharm.												
Course Code	Course	1	2	3	4	5	6	7	8	9	10	11
4.8.1 T	Advanced Drug Delivery System	√	√	--	--	--	√	--	√	√	√	√
4.8.1 P	Advanced Drug Delivery System	√	√	√	√	--	√	--	--	√	√	√
4.8.2 T	Cosmetic science	√	--	--	--	--	√	--	--	√	--	√
4.8.2 P	Cosmetic science	√	--	--	--	--	√	--	--	√	--	√
4.8.3 T	Pharmaceutical Analysis-VI	√	√	√	--	√	--	√	√	--	√	√
4.8.3 P	Pharmaceutical Analysis-VI	√	√	√	√	√	--	√	√	--	√	√
4.8.4 T	Medicinal Chemistry-IV											
4.8.4 P	Medicinal Chemistry-IV											
4.8.5 T	Pharmacology-V(Including Biostatistics)	√	√	√	√	√	√	√	√	√	√	√
4.8.5 P	Pharmacology-V(Including Biostatistics)	√	√	√	√	√	--	√	√	√	√	√
4.8.6 P	Natural Products: Commerce, Industry & Regulations	√	--	√	√	--	--	--	√	√	--	√
4.8.7 T	Quality Assurance Tech.	√	--	--	--	--	√	√	--	√	--	√

- The institution follows the curriculum prescribed by Savitribai Phule Pune University, Pune. However, when the curriculum is compared with the latest trends or academic or industrial developments & to develop a strong basic knowledge to the students, the faculty and Dept. Heads has identified few gaps to meet CO, PO and PEO's which are as follows;

**AY 2014-2015 Curriculum Gaps (2008 Pattern)****Table 2:** Curriculum gaps in respective years

S. No.	Course	Gap	Relevance to POs
1.	Pharmaceutical Jurisprudence	<ul style="list-style-type: none"> <li>SUPAC guidelines</li> </ul>	PO 1
2.	Pharmaceutical Microbiology & Immunology	<ul style="list-style-type: none"> <li>Pharmacy knowledge-Microbial world related to "YOU"</li> </ul>	PO1 & PO 11
3.	Pharm. Engg.	<ul style="list-style-type: none"> <li>Demonstration on modern tools/equipments</li> </ul>	PO1, PO4, PO6, PO11
4.	Pharmaceutics II	<ul style="list-style-type: none"> <li>Advanced granulation and coating process knowledge Planning Abilities, Modern tool usage.</li> </ul>	PO1, PO2 PO4, PO11
5.	Pharmacology-III	<ul style="list-style-type: none"> <li>Hospital working</li> </ul>	PO6, PO9
6.	Pharmacology-I	<ul style="list-style-type: none"> <li>ADR reporting</li> </ul>	PO3, PO8, PO11
7.	Pharmacology- II	<ul style="list-style-type: none"> <li>Animal experiments</li> </ul>	PO4, PO2
8.	Pharmacognosy II	<ul style="list-style-type: none"> <li>Method of extraction</li> </ul>	PO1, PO3
9.	Medicinal Chemistry –II	<ul style="list-style-type: none"> <li>Practically demonstrate CADD Software</li> </ul>	PO 4, PO11
10.	Medicinal Chemistry I	<ul style="list-style-type: none"> <li>Prototype of every category of drugs, Current drugs in market, and novel drugs under research in all medicinal categories pertaining to respective syllabus.</li> </ul>	PO1, PO11

## AY 2015-2016 Curriculum Gaps (2013 Pattern)

S. No.	Course	Gap	Relevance to POs
1.	Pharmaceutical jurisprudence	<ul style="list-style-type: none"> <li>SUPAC guidelines</li> </ul>	PO 1
2.	Pharmaceutical Microbiology & Immunology	<ul style="list-style-type: none"> <li>Pharmacy knowledge - Microbial world related to “YOU”</li> </ul>	PO1 & PO 11
3.	Industrial Pharmacy	<ul style="list-style-type: none"> <li>To understand different operations in manufacturing as per GMP.</li> <li>Understand Concept of Scale up and technology transfer under Academic- Industry interaction</li> </ul>	PO1, PO3, PO6, PO11
4.	Human Anatomy and Physiology	<ul style="list-style-type: none"> <li>Working with blood bank</li> </ul>	PO1, PO4, PO6
5.	Pharmacology-III	<ul style="list-style-type: none"> <li>Hospital visit and case study</li> </ul>	PO3, PO8, PO11,
6.	Pharmacology-III	<ul style="list-style-type: none"> <li>Recent trends</li> </ul>	PO5, PO7, P10
7.	Pharmacognosy and Phytochemistry-I	<ul style="list-style-type: none"> <li>Use of Modern tool</li> </ul>	PO3, PO4
8.	Analytical Pharmacognosy & Extraction Technology	<ul style="list-style-type: none"> <li>Chromatographic separation techniques</li> </ul>	PO1, PO3
9.	Natural Product Chemistry	<ul style="list-style-type: none"> <li>Spectroscopic methods</li> </ul>	PO1, PO3
10.	Medicinal Chemistry-III	<ul style="list-style-type: none"> <li>Practically Demonstration of Chemdraw Software</li> </ul>	PO 4, PO 11
11.	Medicinal Chemistry-I	<ul style="list-style-type: none"> <li>Prototype of every category of drugs, Current drugs in market, and novel drugs under research in all medicinal categories pertaining to respective syllabus.</li> </ul>	PO1, PO11
12.	Medicinal Chemistry-II	<ul style="list-style-type: none"> <li>Naming drugs as per IUPAC following the updated for naming several different heterocyclic compounds.</li> <li>Research stories of several peptides available to treat metabolic diseases.</li> </ul>	PO1, PO11

## AY 2016-2017 Curriculum Gaps (2013 Pattern)

S. No.	Course	Gap	Relevance to POs
1.	Pharmaceutical jurisprudence	<ul style="list-style-type: none"> <li>SUPAC guidelines</li> </ul>	PO 1
2.	Pharmaceutical Microbiology & Immunology	<ul style="list-style-type: none"> <li>Pharmacy knowledge- Microbial world related to "YOU"</li> </ul>	PO1 & PO 11
3.	Industrial Pharmacy	<ul style="list-style-type: none"> <li>To understand different operations in manufacturing as per GMP.</li> <li>Understand Concept of Scale up and technology transfer</li> </ul>	PO1, PO3, PO6, PO11
4.	Pharmacology-V	<ul style="list-style-type: none"> <li>Hospital visit and case study</li> </ul>	PO3, PO8, PO11
5.	Pathophysiology and clinical biochemistry	<ul style="list-style-type: none"> <li>Usage of Modern Tool</li> </ul>	PO2, PO4, PO11
6.	Human Anatomy and Physiology	<ul style="list-style-type: none"> <li>Working with blood bank</li> </ul>	PO1, PO3, PO4
7.	Natural Drug Technology	<ul style="list-style-type: none"> <li>Genetics</li> </ul>	PO1, PO11
8.	Medicinal Chemistry –III	<ul style="list-style-type: none"> <li>Chemdraw Software</li> </ul>	PO 4, PO 11
9.	Medicinal Chemistry-I	<ul style="list-style-type: none"> <li>Prototype of every category of drugs, Current drugs in market, and novel drugs under research in all medicinal categories pertaining to respective syllabus.</li> </ul>	PO1, PO11
10.	Medicinal Chemistry-II	<ul style="list-style-type: none"> <li>Naming drugs as per IUPAC following the updated for naming several different heterocyclic compounds.</li> <li>Research stories of several peptides available to treat metabolic diseases.</li> <li>DM, its treatment, importance of counseling DM patients, treatment options available, and accepted to reach the market in near future</li> </ul>	PO1, PO11

**2.1.2 State the delivery details of the contents beyond the Syllabus for the attainment of POs (20)**

(Provide details of the additional course/learning material/content/laboratory experiments/ projects etc., arising from the gaps identified in 2.1.1 in a tabular form in the format given below)

**Table 3: Contents beyond the Syllabus for the attainment of POs  
AY 2014-2015 Contents beyond the Syllabus (2008 Pattern)**

S. No.	Gap	Action taken	Date /Month/Year	Resource Person with Designation	No. of students present	Relevance to POs
1.	SUPAC guidelines	Seminar conducted	19/09/2014	Dr. G.D. Basarkar (Professor)	65	PO 1
2.	Pharmacy knowledge- Microbial world related to "YOU"	Video/ PowerPoint presentation	04/07/2014	Prof. L.P. Kothari (Asst. Professor)	62	PO1 & PO 11
3.	Demonstration on modern tools/ equipments	Workshop conducted	06/02/2015	Mr. Amol Garde Service Engineer, CB House-1, Jaydeep Nagar, Mumbai.	55	PO1, PO4, PO6, PO11
4.	Advanced granulation and coating process knowledge Planning Abilities, Modern tool usage.	Workshop conducted on Fluidized Bed Processor	06/02/2015	Mr. Suraj Datir Process Executive, ACG Pharma Tech Pvt., Ltd., (PAMGLAT), Pune.	58	PO1, PO2 PO4, PO11
5.	Hospital working	Visit to Govt. Sub district Hospital	28/07/2014	Dr. D.T. Rajput (Doctor)	55	PO6, PO9
6.	ADR reporting	Expert talk	06/09/2014	Mr. Chandrashekhar Athare (Senior Scientist)	48	PO3, PO8, PO11
7.	Animal experiments	Shown actual experiments	12/01/2015	Dr. A. B. Upaganlawar (Asso. Professor)	30	PO4, PO2
8.	Method of extraction	Demo of extraction by Soxhlet apparatus	19/07/2014	Mr. S. R. Jain (Asso. Professor)	42	PO1, PO3
9.	Practically demonstrate CADD Software	Seminar arranged	04/02/2015	Prof. H. V. Shahare (Assist. Professor)	42	PO 4, PO 11
10.	Knowledge of prototypes IUPAC nomenclature of drugs	Lecture, Home Practice	19/09/2014	Dr. V. A. Chatpalliwar (Professor)	65	PO1, PO11



## AY 2015-2016 Contents beyond the Syllabus (2013 Pattern)

S. No.	Gap	Action taken	Date /Month/Year	Resource Person with designation	No. of students present	Relevance to POs
1.	SUPAC guidelines	Seminar conducted	20/08/2015	Dr. G.D. Basarkar (Professor)	62	PO 1
2.	Pharmacy knowledge- Microbial world related to “YOU”	Video/ PowerPoint presentation	06/07/2015	Prof. L.P. Kothari (Assist. Professor)	71	PO1 & PO 11
3.	<ul style="list-style-type: none"> <li>To understand different operations in manufacturing as per GMP.</li> <li>Understand Concept of Scale up and technology transfer under Academic-Industry interaction</li> </ul>	Industrial tour visit to Glenmark Pharmaceuticals, Baddi and Ayurved Pvt. Ltd. Baddi, (HP)	21/09/2015 to 22/09/2015	Glenmark Pharmaceuticals, Baddi and Ayurved Pvt. Ltd. Baddi, (HP)	48	PO1, PO3, PO6, PO11
		Guest lecturer arranged	07/05/2016	Mr. Sanjay Chandratre Manufacturing Manager, GSK Pharmaceutical Ltd., Nashik	62	PO1, PO3, PO6, PO11
4.	Working with blood bank	Expert lecture arranged	28/11/2015	Dr. D.T. Rajput (Doctor)	44	PO1, PO3, PO6, PO11
5.	Hospital visit and case study	Visit to Hospital	31/08/2015	Dr. S.R. Jangada (Doctor)	50	PO1, PO8, PO11
6.	Recent development in clinical research	Expert lecture arranged	20/02/2016	Mr. Prashant Chorge (Senior Data Associate)	58	PO5, PO7, PO10
7.	Use of Modern tool	Use and applications of Motic microscope was demonstrated.	18/07/2015	Mrs. C.T. Nemade (Assist. Professor)	65	PO3, PO4

8.	Chromatographic separation techniques	Lecture was arranged	09/01/2016	Mr. P. K. Porwal (Assist. Professor)	52	PO1, PO3
9.	Spectroscopic methods	Lecture was arranged	06/02/2016	Mr. P. K. Porwal (Assist. Professor)	57	PO1, PO3
10.	Practically demonstration on Chemdraw Software	Seminar arranged	26/10/2015	Prof. H. V. Shahare (Assist. Professor)	47	PO 4, PO 11
11.	Knowledge of prototypes IUPAC nomenclature of drugs	Lecture, Home Practice	17/09/2015	Dr. V. A. Chatpalliwar (Professor)	70	PO1, PO11
12.	<ul style="list-style-type: none"> <li>Naming drugs as per IUPAC</li> <li>Research stories of several peptides</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Power point presentation and youtube display</li> </ul>	12/01/2016	Dr. V. A. Chatpalliwar (Professor)	70	PO, PO11

**AY 2016-2017 Contents beyond the Syllabus (2013 Pattern)**


S. No.	Gap	Action taken	Date /Month/Year	Resource Person with designation	No. of students present	Relevance to POs
1.	SUPAC guidelines	Guest lecturer conducted	08/09/2016	Dr. G.D. Basarkar (Professor)	66	PO1, PO11
2.	Pharmacy knowledge- Microbial world related to "YOU"	Video/ PowerPoint presentation	11/07/2016	Prof. L.P. Kothari (Assist. Professor)	66	PO1 & PO 11
3.	To understand different operations in manufacturing as per GMP. Understand Concept of	Guest lecturer conducted	28/05/2017	Mr. Shripad Gadhingalajkar Deputy Manager, FDC Ltd., Mumbai.	58	PO1, PO3, PO6, PO11

	Scale up and technology transfer					
4.	Hospital visit and case study	Visit to hospital	18/07/16	Dr. Jangada (Doctor)	52	PO3, PO8, PO11
5.	Usage of Modern Tool	Experiment conducted on Autoanalyser	21/02/2017	Mr. Manoj Mahajan (Assist. Professor)	60	PO2, PO4, PO11.
6.	Working with blood bank	Expert lecture conducted	21/01/2017	Dr. D.T. Rajput (Doctor)	54	PO1, PO3, PO4.
7.	Genetics	Guest lecture arranged	07/10/2016	Dr. M.T.Patil (Asso. Professor)	61	PO1, PO4
8.	Practically demonstration on Chemdraw Software	Seminar arranged	24/08/2016	Prof. H. V. Shahare (Assist. Professor)	52	PO 4, PO 11
9.	Knowledge of prototypes IUPAC nomenclature of drugs	Lecture, Home Practice	17/09/2016	Dr. V. A. Chatpalliwar (Professor)	70	PO1 and PO11
10.	<ul style="list-style-type: none"> <li>• Naming drugs as per IUPAC</li> <li>• Research stories of several peptides</li> <li>• DM, its treatment, importance of counseling DM patients, treatment options available, and accepted to reach the market in near future</li> </ul>	<p>Lecture</p> <p>Power point presentation and youtube display</p> <p>Lectures and group discussion, hand written notes</p>	12/01/2017	Dr. V. A. Chatpalliwar (Professor)	70	PO1 and PO11

### 2.1.3 Adherence to Academic Calendar (10)


(Demonstrate notified academic calendar and its adherence)



- In the beginning of every academic year, an academic calendar is prepared with an objective to plan the academic activities to be undertaken based on the Savitribai Phule Pune University circular. It is prepared by Planning & Establishment Committee in consultation with other committee members as per SPPU circular and finalized by Principal.
- The calendar specifies the number of working days available for teaching excluding holidays, Sundays and examination days. It gives the dates for conduction of internal theory and practical examinations and other activities including cultural events, extra and co-curricular events, health campaigns and sports events.

 SNJB's SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY JAIN GURUKUL, NEMUNAGAR, ATP, CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101			
ANNUAL PLAN (B. PHARM. AND M. PHARM.) FOR ACADEMIC YEAR 2018 - 2019			
Sr. No.	Month	Date	Activity/Event
1.	June/July/Aug	31/08/2018	Admission Process - First Year B. Pharm.
2.	June	04/06/2018	Commencement of M. Pharm. Sem. III
3.	June	15/06/2018	Commencement of B. Pharm. Sem. III, Sem. V and Sem. VII
4.	June	21/06/2018	Third International Yoga Day
5.	July	01/07/2018	Tree Plantation Program
6.	July/August	21/07/2018	Admission Process - First Year M. Pharm. and Direct Second Year B. Pharm.
7.	July	29/07/2018	Voters Awareness Program
8.	August	01/08/2018	Commencement of B. Pharm. Sem. I Parent Teacher Meet for B. Pharm. Sem. I
9.	August	01/08/2018 - 15/08/2018	Swachh Swasth (Swasth Parivarwadi)
10.	August	03/08/2018	Table Tennis (Inter Collegiate Sports, Nashik zone) at KVN Nashik Engineering College, Nashik
11.	August	06/08/2018	Squash (Inter Collegiate Sports, Nashik zone) at Arts, Commerce Ladies College, Nashik
12.	August	15/08/2018	Independence Day Celebration
13.	August	20/08/2018	Commencement of M. Pharm. Sem. I
14.	August	28/08/2018 - 30/08/2018	Football (Inter Collegiate Sports, Nashik zone) at K. K. Wagh Engineering College, Nashik
15.	August		Law Week Parent Teacher Meet
16.	September	05/09/2018	Teacher's Day and Welcome for Freshers
17.	September	07/09/2018	Blood Donation Camp
18.	September	13/09/2018 - 17/09/2018	Ganesh Festival
19.	September	17/09/2018 - 18/09/2018	Chess (Inter Collegiate Sports, Nashik zone) at Saput College, Nashik
20.	September	25/09/2018	World Pharmacist Day
21.	September	24/09/2018 - 29/09/2018	Internal Practical Exam for B. Pharm.

	<b>SNJB's</b> <b>SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY</b> <b>JAIN GURUKUL, NEMINAGAR,</b> <b>AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-421 101.</b>
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Sr. No.	Month	Date	Activity/Event
22.	September	29/09/2018	EVS Project Submission
23.	October	01/10/2018	Boxing (Inter Collegiate Sports, Nasik zone) at Arts, Commerce and Science College, Soygaon
24.	October	05/10/2018 - 06/10/2018	Volleyball (Inter Collegiate Sports, Nasik zone) at Arts, Commerce and Science College, Cideo, Nashik
25.	October	8/10/2018 - 13/10/2018	First Internal Exam for M. Pharm. Sem. I
26.	October	01/10/2018 - 09/10/2018	Internal Theory Exam for B. Pharm.
27.	October	15/10/2018	Vachan Prerana Din (Celebration of Birth Anniversary of Dr. A. P. J. Abdul Kalam)
28.	October	20/10/2018	Weight lifting, Power lifting (Inter Collegiate Sports, Nasik zone) at Arts, Commerce and Science college, Chandwad
29.	October	Last Week	Women Empowerment Program
30.	October	30/10/2018	National Unity Day
31.	November	04/11/2018 - 11/11/2018	Deepawali Vacation
32.	November	12/11/2018 - 17/11/2018	Internal (Improvement) Exam for B. Pharm.
33.	November	20/11/2018	Commencement of SPPU University Exam for B. Pharm.
34.	November	12/11/2018 - 30/11/2018	University Seminar for M. Pharm.
35.	November	26/11/2018 - 01/12/2018	Second Internal Exam for M. Pharm. Sem. I
36.	November	26/11/2018	Sanvidhan Din
37.	November	29/11/2018	Commencement of B. Pharm. Sem. II, Sem. IV, Sem. VI and Sem. VIII and M. Pharm. Sem. II
38.	December	19/12/2018	Commencement of SPPU University Exam for M. Pharm.
39.	January	First Week	National Pharmacy Week (NPW)
40.	January	First or Second Week	Annual Gathering

 <b>SNJB's</b> <b>SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY</b> <b>JAIN GURUKUL, NEMINAGAR,</b> <b>AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101.</b>			
Sr. No.	Month	Date	Activity/Event
41.	January	11/01/2019 - 17/01/2019	NSS Camp
42.	January	26/01/2019	Republic Day Celebration
43.	February	27/02/2019	Marathi Bhasha Gaurav Din
44.	February	Last Week	Student Personality Development Program (One Day)
45.	February	Last Week	Farewell Function for B. Pharm. Sem. VIII students
46.	March	04/03/2019 - 09/03/2019	First Internal Exam for M. Pharm. Sem. II
47.	March	08/03/2019	Program for Women's Awareness (International Women's Day)
48.	March	11/03/2019 - 16/03/2019	Internal Practical Exam for B. Pharm.
49.	March	18/03/2019 - 25/03/2019	Internal Theory Exam for B. Pharm.
50.	April	01/04/2019 - 20/04/2019	University Seminar for M. Pharm.
51.	April	22/04/2019 - 30/04/2019	Second Internal Exam for M. Pharm. Sem. II
52.	April	30/04/2019	Conclusion of Term for B. Pharm.
53.	April/May	Last Week of April to End of May	SPPU University Exam for B. Pharm. (All Sem.)
54.	May	Mid May to First week of June	SPPU University Exam for M. Pharm. Sem. II
55.	May	15/05/2019	Conclusion of Term for M. Pharm.
56.	May	31/05/2019	Submission of M. Pharm. Thesis

Dr. C. D. Upasani  
**PRINCIPAL**  
 SNJB's SHRIMAN SURESHDADA JAIN  
 COLLEGE OF PHARMACY, NEMINAGAR  
 CHANDWAD (NASHIK)

Figure 2: Academic Calendar

## 2.2. Teaching – Learning Processes (110)

### 2.2.1 Initiative in teaching and learning process (25)

*(Implemented teaching-learning process and Initiatives in improving instruction methods, using real world examples, collaborative learning, the quality of laboratory experiments with regard to conduct, record observations, analysis, Feedback collection process; collection, analysis and action taken etc. encouraging bright students, assisting weak students etc. The initiatives, implementation details and impact analysis need to be documented)*

- In teaching and learning, we are following conventional method along with ICT based techniques. From our institute, few of our faculties have been trained through FDP program in ICT based techniques.
- The initiatives in teaching and learning process are followed at two levels i.e. for theory classes and practical separately. The mechanism of implementation have been as follows.

#### I. Theory Classes:

1. Multimedia elements like Power Point, Flash, Animations, Videos and YouTube etc.
2. Other practices such as Teaching with Humor, Z to A teaching approach, Model making, Chart making, bringing live specimens and Market samples etc.

#### II Practical sessions:

1. Pairing of students: Based on their previous semester performance, students are identified as academically strong and weak & then they are paired. This ensures that a student who is weak is paired with a stronger student which helps them in understanding and coping up with practical requirements.
  2. Encouraging bright students: Students showing an aptitude for a particular subject are encouraged to read national/ internal journals, collecting market samples and displaying.
  3. Degree of Freedom: Students are encouraged to formulate various formulations on their own (going beyond the syllabus).
- **Semester Planning:** In our institute, teaching and learning process begins with an orientation program. The key part of this program is to orient and introduce the

students and parents towards professional education and to promote the capabilities to learn the course. These immensely prepare and motivate the students towards the self learning and to achieve high score for their interest.

- **Subject allotment:** The faculties are invited to take subject of interest; timetable in-charge along with feedback of passed students will discuss with principal and allot the subjects. The workload is distributed to faculty as per the norms for effective teaching and for betterment of students. It is generally done in advance for the staff to prepare teaching plans and to prepare their notes for students.
- **Teaching Plan:** To the allotted subject, faculty prepares a teaching plan for a academic year which is verified by HOD/Principal.


 <b>SNJB's</b> <b>SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY</b> JAIN GURUKUL, NEMINAGAR, AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101.					
<b>TEACHING PLAN FOR ACADEMIC YEAR 2014-15</b>					
Name of the Faculty: Mrs Daga Vandana Radheshyam			Class: Final year B.Pharmacy		
Subject: Pharmaceutics III Theory					
SN	Name of the Topic (major headings)	Month/Week	No. of Classes Prescribed	No. of Classes Required	Verification by HOD/Principal
1	Introduction to syllabus	July 1 <sup>st</sup> week	1	1	✓
2	Preformulation of Parenterals.	July 4 <sup>th</sup> week	05	05	
3	Ophthalmic Products :		04	04	
4	General Requirements :		03	03	
5	Small Volume Parenterals (SNVPs) :	August 1 <sup>st</sup> week	06	06	✓
6	Packaging of Parenterals :	September 1 <sup>st</sup> week	04	04	
7	GMP-Design of Parenteral Production :		03	03	
8	Large Volume Parenterals (LVPs):	September 2 <sup>nd</sup> week-September 3 <sup>rd</sup> week	05	05	✓
9	Modified Drug Release Systems	October 1 <sup>st</sup> week-November 3 <sup>rd</sup> week	12	12	
10	Novel Drug Delivery Systems :	November 3 <sup>rd</sup> & 4 <sup>th</sup> week	09	09	✓

Figure 3: Teaching plan



- **Course File:** For each course, a course file is prepared by the concerned faculty for their allotted subjects including the laboratory. The format of course file is shown in following table.

**Table 4:** Details of course file

	Theory	Practical
<b>Course Name / Pattern</b>	<b>PBM &amp; DM / 2013</b>	<b>Not applicable</b>
<b>Course Code</b>	<b>3.5.6 T</b>	-
<b>Faculty</b>	<b>Dr. G.D.Basarkar</b>	-
<b>S.No</b>	<b>Documents</b>	✓
1.	Vision, Mission, POs & PEOs	✓
2.	Syllabus with list of recommended books	✓
3.	Delivery of Syllabus content	✓
4.	Course outcomes ( Theory and Practicals)	✓
5.	CO-PO matrix	✓
6.	Academic Calendar	✓
7.	Time table	✓
8.	Teaching plan	✓
9.	Lecture notes ( Hand written/PPT handouts)	✓
10.	Sessional question papers with model answers	✓
11.	Records of assignment, seminar etc.	✓
12.	University Question papers	✓
13.	University semester result analysis	✓
14.	Assignments for weaker students	✓
15.	Practical plan	Not applicable
16.	List of Experiments	Not applicable
17.	Practical requirement	Not applicable
18.	Lab Manual	Not applicable
19.	Beyond the syllabus ( Gap analysis)	✓
20.	Course feedback forms	✓
21.	Corrective action taken based on feedback ( If any)	✓

**Classroom teaching quality:**

The detailed teaching methods are given in following table

**Table 5:** Method of classroom teaching

Method of Teaching	Please indicate by √
Conventional method	√
PowerPoint presentation	√
YouTube	√
Videos	√
Blog spot	√
Animations	√
Fishbone problem solving	√
Pharma carrier App	√
Any other.... Specify	<ul style="list-style-type: none"> <li>• Think-Pair-share activity</li> <li>• Notes and handouts</li> <li>• Models for stereochemistry</li> <li>• Ball and stick models, Chemdraw</li> </ul>

- **E-Library:** The Internet service facilities are available in the institutions for students and staff. These facilities are accessed by providing user name and password to each student and staff. E-library is made available to students and faculty to access various books, national and international journals. The availability of educational software, CDs and DVDs in the library augment the teaching learning materials.

A few of CDs and DVDs which are available are

CD No.	Author/Title	Subject
CD-185	Secondary	General Chemistry
CD-186	Integrated Pharmacology	Integrated Pharmacology
CD-187	Pharmacology	Pharmacology
CD-188	Pharmacology	Pharmacology
CD-189	Pharmacology	Pharmacology
CD-190	Pharmacology	Pharmacology
CD-191	Pharmacology	Pharmacology
CD-192	Pharmacology	Pharmacology

**Figure 4:** List of CDs in library

**Table 6:** List of Journals Subscribed in Library**List of Journals Subscribed in Library: B. Pharmacy Course**

<b>Sr. No.</b>	<b>Name of Journal</b>	<b>Status</b>
1.	International Journal of Pharmaceutical Research and Technology	International
2.	International Journal of Drug Development and Technology	International
3.	International Journal of Pharmaceutical Development and Technology	International
4.	Indian Journal of pharmaceutical Science and Research	National
5.	Inventi Impact: Pharma Tech	National
6.	Inventi Impact:NDDS	National
7.	Inventi Impact: Novel Excipients	National
8.	Inventi Impact: Pharma Biotech and Microbio	National
9.	Journal of Natural Pharmaceuticals	National
10.	International of Experimental Pharmacology	International
11.	International Journal of Pharmacology Screening Methods	International
12.	Toxicology International	International
13.	Journal of Pharmacology and Pharmacotherapeutics	National
14.	Journal of Postgraduate Medicine	National
15.	Inventi Impact: Animal Models & Cell Assays	National
16.	Inventi Impact: Ethnopharmacology	National
17.	The Indian Journal of Experimental Biology	National
18.	Indian Journal of Heterocyclic Chemistry	International
19.	International Journal of Medicinal Chemistry & Analysis	International
20.	Indian journal of Chemistry Sec.B	National
21.	Medicine & Aromatic Plants Abstracts	National
22.	Inventi Impact: Molecular Modeling	National
23.	Inventi Impact: Biomedical Analysis	National
24.	Inventi Impact: Med. Chemistry	National
25.	Inventi Impact: Pharma Analysis & Quality Assurances	National
26.	International Journal of Green Pharmacy	International
27.	Journal of Young Pharmacist	International
28.	Journal of Pharmacy and Bioallied Sciences	National
29.	Indian Journal of Pharmaceutical Sciences	National
30.	Pharmacognosy research	National
31.	Journal of Biosciences	National
32.	Journal of Intellectual Property Rights	National

• **Student counselling:**

In view of individual attention, for effective academic and personal guidance, institute has a made a faculty-student counseling program. Each newly admitted students are allotted to respective faculties. Each faculty maintains the counseling record, their progress and that report sent to the parents also for their kind information and action towards.

Each Faculty: 14-16 students

Allotment: Commencement of I semester of first year

Objective:

- ✓ To help the students who feel difficulties in learning
- ✓ To solve the personnel issues
- ✓ To motivate and boost social relationship
- ✓ To provide information and guide for career opportunities based on their skill and interest
- ✓ To guide in research, project work and training programs

SNJB'S SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY JAIN GYANMATH, CHANDWAD 431 201 CHANDWAD, DIST. CHANDWAD, MS. 431001, INDIA						
STUDENT COUNSELLING PROGRAM REPORT						
Student Name: <u>Ladha Siddhanta</u>				Academic Year: <u>15-16</u>		
Class/Sem: <u>1<sup>st</sup> yr.</u>				Roll No: <u>218</u>		
Faculty Name: <u>Dr. Arvind Upgarwad</u>						
Meeting No.	Date	Discussion / Suggestions / Problems	Student Sign	Faculty Sign	Parent / Supervisor / Principal	
01	30/08/15	- Discussion about importance of graduation class	[Signature]	[Signature]	[Signature]	
02	06/09/15	- How to prepare for exam, motivation was discussed	[Signature]	[Signature]	[Signature]	
03	14/09/15	- Gantt prepared	[Signature]	[Signature]	[Signature]	
04	01/10/15	- Gantt distributed, motivate to participate in clubs, NCC	[Signature]	[Signature]	[Signature]	
05	21/10/15	- discuss the other courses and scope of higher education	[Signature]	[Signature]	[Signature]	
06	07/11/15	- career counselling	[Signature]	[Signature]	[Signature]	
07	01/12/15	- completion of assignments, guidance improvement of marks	[Signature]	[Signature]	[Signature]	
08	01/12/15	- Prep of annual exam, career guidance	[Signature]	[Signature]	[Signature]	

Figure 5: Student counseling form

- **Conference presentations:**

The students are encouraged for short research during their academics. The students are encouraged to participate in various national and international scientific conferences organized by our institute and other colleges to present posters and also for their oral presentation. This nurtures the scientific temper and interest towards the research amongst the students. The data and some of certificates of presentations have shown in figure.





Figure 6: Conferences presentations by students

- **Institutional Conferences/Workshop:**

Each year, the college organizes various state and national conferences and workshop sponsored by university and other technical committees. In these conferences and workshop, students attend the lectures, and get interacted with expertise personalities in pharmacy profession. The students also work as volunteer and learn many things to manage for getting event successful.



Figure 7: Conference Organized by Institute

- **Guest lecture:**

The institute invites guest faculties/resource persons on regular intervals. The eminent persons working in well known pharmaceutical industries, research organizations, are called by our institute to motivate and help our students and also to faculty to understand current trends in various aspects, which leads to attainment of Pos. The talk of these persons becomes a bridge to fill the gaps and also develop a rapport for meeting the future need of the industries, research organizations and universities.

**Table 7:** Guest lecture organized by institute

Sr. No.	Date	Topic	Name of Guest Lecturer	Address of Resource Person
1.	28/05/2017	Introduction to GMP	Mr. Shripad Gadhingalajkar	Deputy General Manager, F and D, FDC Ltd., Jogeshwari, Mumbai
2.	24/05/2017	Nasal Drug Delivery System	Dr. Swapnil S. Chudiwal	Manager, Regulatory Affairs, Wockhardt Ltd., Aurangabad
3.	20/05/2017	Novel Drug Delivery Systems	Mr. Pravin Bhutada	Principal Research Scientist, Lupin Research Park, Pune
4.	14/05/2016	Intellectual Property Rights	Dr. Brahmanand R. Dube	Research Scientist, Global IP & Strategic Planning Wockhardt Ltd., Aurangabad
5.	07/05/2016	Good Manufacturing Practices	Mr. Sanjay M. Chandratre	Manufacturing Manager GlaxoSmithKline Pharmaceuticals Ltd., A-10, MIDC, Industrial Area Ambad, Nashik-422010
6.	30/04/2016	Competitive Examinations: MPSC, UPSC	Dr. Vijay Chandankar	Glenmark Pharmaceuticals Ltd., Sinnar, Nashik
7.	18/04/2016	Advances in Pharmaceutical Technology	Dr. Prashant L. Pingale	Associate Professor GES's Sir Dr. M. S. Gosavi College of Pharmacy, Nashik
8.	05/12/2015	Nanocarriers as Drug Delivery System	Dr. Abhinav Agrawal	Research Officer-F&D Glenmark Pharmaceuticals Ltd. Mumbai.
9.	05/12/2015	Gastroretentive drug delivery systems	Dr. Himanshu Agrawal	Senior Research Officer-R&D Glenmark Pharmaceuticals Ltd., Mumbai.

10.	07/02/2015	Lyophilization Process for Pharmaceuticals	Mr. Sameer Patil	Research Officer, Glenmark Generics Ltd., Talaja, MIDC, Mumbai.
11.	06/02/2015	Fluid Bed Processing	Mr. Suraj Datir	Process Executive, ACG Pharmatech.Pvt. Ltd., (Pam-Glatt), Shirwal, Satara Road, Pune.
12.	06/02/2015	Demonstration Of Freeze Dry system	Mr. Amol Garde	Service Engg., CB House-1, Jaydeep Nagar, Mumbai.
13.	13/12/2014	Novel Delivery Systems	Dr. Vijay J. Ahire	Business Development Manager, Pharmaceuticals Divisions, Gattefosse India Pvt. Ltd., Mumbai.
14.	13/12/2014	Advances in Manufacturing Technology	Mr. Sanjay M. Chandratre	Manufacturing Manager GlaxoSmithKline Pharmaceuticals Ltd., A-10, MIDC Industrial Area Ambad, Nashik-422010
15.	13/12/2014	Quality by Design	Mr. Sameer Patil	Research Scientists Glenmark Generics Ltd., Glenmark Research centre, Plot no: M-4, MIDC Industrial Area, Talaja, Dist. Raigad (MS) - 410 208.
16.	25/11/2014	General Consideration of examination	Prof.V. R. Mahajan	Assistant professor, SMBT College of Pharmacy, Dhamangaon, Tal-Igatpuri, Dist-Nashik
17.	18/01/2014	Nasal Drug Delivery System	Mr. Swapnil Chudiwal	Research Scientist, Wockhardt Research Centre, Aurangabad.
18.	10/01/2014	Advances Technology Transfer	Mr. Alkesh Rajendra Kasliwal	Sr. Resarch Officer, Glenmark Pharmaceutces Ltd., Sinnar, Nashik
19.	07/01/2014	Mesoporous Silica as a Platform for Drug Delivery.	Dr. Vishal V. Pande	Associate Professor, Sanjeevani college of Pharmacy Education & Research, Kopargaon
20.	20/12/2013	Dimension In Pharmacy	Mr. Virupaksha A. Bastikar	Director, Daksh Foundation, Shop 3, 4, 5 Nishigandha Apartment, Raigad, Thane.
21.	25/10/2013	Communication & Soft Skill Development	Dr. Shekhar M. Joshi	Head Dept. of Marketing, B.Y.K. College of Commerce, Nashik - 422 005



22.	26/09/2013	Nature Conservation	Mr. Anil U. Dhattrak	Nature Conservationist 7, Jalaram Apartment, MatoshreeNagar, Upnagar, Nashik 431 005
23.	01/07/2013	Quality Assurance in Pharmaceutical Industry	Mr. Makarand M. Khambete	DGM-Quality Assurance, Mylan Laboratories Ltd, Sinnar, Dist-Nashik.
24.	22/06/2013	Advances in Nasal Formulations	Dr. Yashwant Gupta	Senior Research Officer, Glenmark Pharmaceuticals, Sinnar, Dist-Nashik-422 103.
25.	10/06/2013	Targeted Drug delivery System	Dr. H. S. Mahajan	Associate Professor, R. C. Patel institute of Pharmaceutical Education & Research, Karwand Naka, Shirpur
26.	05/06/2013	Modified Natural Polymers	Dr. S. R. Lahoti	Principal, Shri Bhagwan College of Pharmacy, Dr. Y. S. Khedkar Marg, N-6 CIDCO, Aurangabad-431 003
27.	02/03/2013	Current Aspects of Semisolids Formulations	Mr. Prashant S. Gaikwad	Senior Research Officer, Glenmark Pharmaceuticals Ltd, Sinnar, Nashik.
28.	02/02/2013	Recent Aspects of NDDS	Mr. Ashok R. Katkurwar	Senior principal Scientists, F&D, Glenmark pharmaceutical Ltd, Sinnar, Nashik.
29.	29/12/2012	Good Documentation Practices in pharmaceutical Industry	Dr. Nagesh Badwe	Voice President Regulatory Affairs & Quality Assurance, Alembic Pharmaceutical Ltd., Mumbai.
30.	22/12/2012	Formulation Aspects of Solid dosage forms	Dr. Yashwant Gupta	Senior Research officer, Glenmark Pharmaceuticals, Sinnar, Nashik.
31.	01/12/2012	Particle Size Engineering in drug delivery	Dr. Sandip S. Chavan	Assistant Manager scientist, Dr. Reddy's Laboratories Ltd. Hyderabad.
32.	23/11/2012	Advances in Pharmaceutical Technology	Dr. G. N. Chaudhari	Principal, Sandip Institute of Pharmaceutical sciences, Mahiravani, Nashik.
33.	21/07/2012	Formulation Development of respiratory products	Mr. Girish Ramkrishna Trivedi	Senior Research officer, F&D, Respiratory division, Glenmark Research centre, Sinnar, Dist-Nashik.
34.	23/06/2012	Evolution of Pharmaceutical Regulations	Mr. Pankaj P. Chandratreya	Head, Quality Operations, Indeus Life sciences Pvt.Ltd.

35.	09/06/2012	Latest Aspects in Formulation Development	Mr. Shripad Gadhinglajkar	Assistant General Manager-R&D(F),Ipca Laboratories Ltd.Mumbai.
36.	25/05/2011	Gastroretentive drug delivery system	Dr. Swarup Lahoti	Sr. Voice Principal, Y.B.Chavan college of pharmacy, Aurangabad.
37.	27/05/2011	Formulation development-General considerations	Dr. Shyam S. Dodiya	Sr.Researchscientist,LupinLaboratories,Aurangabad.
38.	26/05/2011	QA-Tools & Techniques	Dr. H. S. Mahajan	Associate Professor, R. C. Patel College of Pharmacy, Shirpur.
39.	19/05/2012	Targeted Drug delivery system	Dr. Sanjay J. Kshirsagar	Asst. Professor, AISSMS COP Kennedy Rd., Pune.
40.	15/05/2012	Advances in Pharmaceutical Technology	Dr. Vishal V. Pande	Associate Professor H. R. Patel Institute Of Pharmaceutical Education & Research, Shirpur.
41.	23/12/2011	Novel Drug Delivery System	Dr. Anil M. Pethe	Associate Professor, NMIMS School of Pharmacy, Shirpur.
42.	21/01/2012	Current Trends in drug delivery-Osmotic delivery system	Mr. Ashok R. Katkurwar	Sr. Principal Scientist, Glenmark Research Centre, Sinnar, Nashik.
43.	14/01/2012	Advances in Pharmaceutical Production.	Mr.Shashankv yapari	Factory Manager, Inventia Healthcare, Ambernath.
44.	31/12/2011	Formulations & development of NCEs	Mr. Kishore Kumar Puhan	Research Officer, C-152, Glenmark Research Centre, MIDC, Malegaon (Sinnar)
45.	24/12/2011	Protection of Patents, Trade marks Designs & Copyrights	Mr. Swapnil Chudiwal	Research officer, F&D, Glenmark Pharmaceuticals Ltd., Sinnar, Nashik.
46.	23/12/2011	Unusual Dosage forms	Dr. Anil M. Pethe	Associate Professor & HOD Quality Assurance, School of Pharmacy & Technology Management, NMIMS University, Shirpur Campus.
47.	17/12/2011	Product Development-General Consideration	Mr. Yogesh Ananda Chachare	Senior Scientist, Pathon INE, 2110E Galbraith Rd. Cicinnati, OH45237

48.	16/07/2011	Patent: An Intellectual Journey.	Dr. Hemgir R. Gosavi	Senior Executive, Pharma Research, Panacia Biotech Ltd., Global Research & Development Centre, Mumbai.
49.	09/07/2011	Development of Formulation-Basic Requirement	Dr. Suresh M. Rajurkar	Senior Research Officer, Glenmark Pharmaceutical Ltd., Sinnar, Nashik.
50.	25/06/2011	General consideration about examinations	Dr. G.S. Deokar	Associate Professor, METs Institute of Pharmacy, Bhujbal Knowledge City, Adgaon, Nashik.
51.	28/05/2011	Product Development	Mr. Someshwar D. Nawhat	Research Officer, Glenmark Pharmaceuticals Ltd., Sinnar, Nashik.
52.	27/05/2011	Solid Lipid Nanoparticles	Dr. Shyam S. Dodiya	Sr. Research Scientist, Lupin Research Park, Aurangabad.
53.	25/05/2011	Research Tool & techniques	Dr. S.R. Lahoti	Associate Professor, Y. B. Chavan College of Pharmacy, Aurangabad.
54.	22/01/2011	No Spill tech and mouth dissolving films	Dr. Pramod Yedurkar	Assistant Manager, Product Development, Johnson & Johnson, Mumbai.
55.	01/01/2011	Introduction to ANDA	Mr. Ashok R. Katkurwar	Principal Scientist, F&D, Glenmark Pharmaceuticals Ltd., Nashik.
56.	24/12/2010	Validation	Dr. Nagesh Badwe	Head, QC, QA & Regulatory Affairs, Lupin Ltd., Aurangabad.
57.	25/12/2010	Formulation & Development-General Considerations	Dr. Hemant R. Gosavi	Senior Executive, F&D, Pancea Biotech Ltd., Mumbai.
58.	18/12/2010	Drug Discovery & development Of Formulation	Dr. Atul C. Badhan	Formulation Scientist Johnson & Johnson, Mumbai.
59.	26/06/2010	Fluidized Bed Processor	Dr. Vijay Ahire	Project Manager, R & D Centre, Inventia Healthcare Pvt. Ltd., Mumbai.
60.	29/05/2010	Solid Dosage Form	Mr. Dilip B. Kaklij	Manager, Process Development Lab., Matrix Laboratory Ltd., Nashik.
61.	22/05/2010	IPR	Mr. Nishidh A. Gangwal	Sr. Research scientist-EMCURE, Pune
62.	08/09/2010	Overseas education system	Mr. Vinayak Kamat	Director, Geebee Education, Churchgate, Mumbai.

63.	29/01/2010	Magic Of Imaging	Mr. Danish N. Tipre	Scientist, Dept. of Medicine, Colomba University Medical Centre, New York.
64.	01/01/2010	Intellectual Property Right	Dr. Sanjay S. Toshniwal	Sr. Research Scientist, Global Intellectual Property, Wockhardt, R&D, Aurangabad.
65.	03/01/2010	Transdermal Drug delivery system	Dr. P. K. Puranik	Prof. of Pharmaceutics, Govt. College of Pharmacy, Aurangabad.
66.	02/01/2010	Advances in Pharmaceutics	Prof. S. B. Gondkar	MGVs College of Pharmacy, Nashik.
67.	14/12/2009	Status of Pharmacist & Pharmacy Profession	Mr. B.E. Khomane	Ass. Comissioner (Retd). Food and Drug Administration, Mumbai.

- **Training program:** The institute provides special training programs to the students for their career development and for their other curriculum such as *GPAT Exam Training, Awareness of traffic rules and Awareness of Fire extinguisher.*
- **Industrial visits:** To bridge the gap between academics and industries, our institute organizes industrial visits for the students, which give the students an understanding of working of industries and also those supplements their class room knowledge.



**Figure 8:** Industrial visits

**Table 8:** Details of Industrial Visits

S. No.	Academic Year	Industry Name	Class
1.	2011-12	<ul style="list-style-type: none"> <li>Lupin Laboratories Ltd., Aurangabad (MS)</li> <li>Maxheal Pharmaceuticals (India) Ltd., Nashik (MS)</li> </ul>	Third Yr. B. Ph.
2.	2012-13	<ul style="list-style-type: none"> <li>M. B. Sugars &amp; Pharmaceuticals Ltd., Malegaon (MS)</li> </ul>	Third Yr. B. Ph.
3.	2013-14	<ul style="list-style-type: none"> <li>Glenmark Generic Ltd., Goa</li> </ul>	Third Yr. B. Ph.
4.	2014-15	<ul style="list-style-type: none"> <li>Alkon Pharmaceuticals Ltd, Navi Mumbai, Mumbai</li> </ul>	Third Yr. B. Ph. & M. Pharmacy
5.	2015-16	<ul style="list-style-type: none"> <li>Glenmark Pharmaceuticals Ltd., Baddi (HP)</li> <li>Ayurved Ltd., Baddi (HP)</li> </ul>	Third Yr. B. Ph.
6.	2016-17	<ul style="list-style-type: none"> <li>Maxheal Pharmaceuticals (India) Ltd., Nashik</li> </ul>	Third Yr. B. Ph.
7.	2017-18	<ul style="list-style-type: none"> <li>M. B. Sugars &amp; Pharmaceuticals Ltd., Malegaon (MS)</li> </ul>	Third Yr. B. Ph.

- **Community Service Program:**

The institute encourages the students to become a responsible citizen of the country by taking part in community service program. It help them to understand real life problems faced by society and encourage them to come up with novel and sustainable solutions for these problems. The students are participating in and perform following social activities;

- Blood donation camp
- Swach Bharath Abhiyaan
- Awareness Rally in town

The community service program was also carried out through the **NSS** channel.

- **NSS:** We have a NSS co-ordinator and team of students from each class. The NSS program organized in each year and various events are carried out.



**Figure 9:** NSS Events



**Figure 10:** Swachh Bharath Abhiyaan



**Figure 11:** Tree plantation by students and staff

- **Conduct of Experiment:**

As per SPPU curriculum, laboratory courses were conducted from 1<sup>st</sup> to 8<sup>th</sup> semester of B. Pharmacy course. In our institute, all laboratories are well equipped with sufficient glassware's and chemicals. The students are given instructions about the handling of hazardous chemicals and sophisticated equipment's used while performing the experiment. Each laboratory are provided with first aid for accidents prone to happen while doing experiments. As per requirements of labs, students are insisted to wear apron, mask and gloves.

Each respective faculty performs the experiment with the students and guide time to time. The observations are verified by faculty and practical record books are maintained by students systemically. During each experiment, the students appeared for synopsis and viva-voce, the questions based on respective experiment. The assessment of each experiment is based on the understanding of experiment through attendance, performance, synopsis, and oral viva voce questions. The writing work of experiment in practical record is also given weightage in the assessment.

- **Student feedback of teaching –learning process:**

The student feedback is used as a source of information to evaluate and improve the teaching effectiveness by faculty to reach up to the level of students. After the end of semester, all the students are required to fill a feedback-form apprising the faculty. The feedback form is shown in figure.

SNJB's SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY  
JAIN GURUKUL, NEM/NAGAR, AT/P. CHANDWAD,  
Tal. Chandwad, Dist. Nashik-423 101.

**Course Feedback Form (B.Pharmacy Program)**

Course Title: Advanced Drug Delivery System Course Code: A.S.1.T  
Year/Semester: Final year (Eight)

**I. THE DESIGN OF THE COURSE**

A. Were the objectives of the course clear to you Yes /  To some extent/ No

B. The course contents met with your expectations Yes /  To some extent/ No

C. The lecture sequence was well planned Yes /  To some extent/ No

D. The contents were illustrated with examples or case studies Yes /  To some extent/ No

E. The course exposed you to new knowledge and practices Yes /  To some extent/ No

F. Will you recommend this course in your program Yes /  To some extent/ No

PTO

**Figure 12:** Student feedback form for Teaching-learning process

- **Methodologies to encourage bright students:**

- Every year, based on the student performance in academics, research work, participation in various conferences and extracurricular activities, the **Best Outgoing Student Award** is given.
- With this, first three rank students from each class were awarded by the management and institute for their best performance in academics.



- Apart from this, best students in sports, cultural events are awarded by the management and institute.
- Similarly, from each year of course, based on the student performance in academics and extracurricular activities, the **Student of year Award** is given.
- Bright students are encouraged to do research in their field of interest irrespective of the year of study. The students are encouraged to participate in various conferences and publish their work.
- Management gives financial support and fee concession to the desirable students those who are bright but economically backward.



**Figure 13:** Financial support by institute to economically backward student

SHRI NEMINATHJI JAIN BRAHMEGACHARYASHRAM'S  
**SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY**  
 SUN GURUKUL, AYWAMAGAN,  
 AT/P, CHANDWAD, Tal. Chandwad, Dist. Nashik-431 304.

**ACADEMIC EXCELLENCE AWARD 2016-17**

Sr. No.	Class	Award	Name of the student
1	B.Pharmacy First Year	Student Of The Year	Miss. Bijwal Wagh
2	B.Pharmacy Second Year	Student Of The Year	Miss. Yogita Shinde
3	B.Pharmacy Third Year	Student Of The Year	Miss. Jyoti Narkhede
4	B.Pharmacy First Year	Student Of The Year	Mr. Anantoon B. Mhatre
5	B.Pharmacy First Year	Best Outgoing Student	Miss. Shilpa Bhat
6	M. Pharmacy Second Year	Best Outgoing Student	Miss. Upasana Khairnar
7	M. Pharmacy Second Year	Student Of The Year	Dr. Sayal Kirtanasa

( Dr. C. D. Upasani )  
Principal

**Figure 14:** Awards to encourage bright students

- **Methodologies to support weak students:**

- The faculty identifies weak students in their class based on their internal marks, attendance, laboratory performance and skills.
- The students who are failed or scored less than 60% marks in their internals are provided with extra classes and their doubts were clarified by subject experts.

- **Co-curricular activities:**

With the regular academics, the co-curricular activities are undertaken side by side which inculcate leadership qualities and team work. Students are encouraged to participate in sports and cultural activities at institute level, regional level and also at university level.

The students are given opportunity to celebrate various events in the institute like;

- Blood Donation Camp
- Pharmacist Day
- Library week and reading day
- Annual day
- Ganesh festival
- Teachers day
- Womens day
- Freshers Day
- Convocation event
- Parent-Teacher meet
- Yoga Day Celebration





**Figure 15:** Co-curricular Activities

### **Impact:**

All the efforts gave fruitful outcome as our students excelled in the

- ✓ National level competitive examinations (GPAT/CAT) and admitted to NIPER for higher education
- ✓ Students achieved best poster award in various national conferences
- ✓ Few of our students published research and review papers in reputed journals
- ✓ Attitude with respect to Entrepreneurship

### **2.2.2. Quality of Internal semester question papers, assignments and evaluation (10)**

*(Mention the initiatives, implementation details and impact analysis related to quality assurance of semester question papers, assignments that encourage and empower the students to develop skills and higher orders of learning and evaluation)*

- As per Credit and Grading Based Semester System of Savitribai Phule Pune University, the percentage of marks for end Semester SPPU exam and Internal examination is 60 & 40 respectively from AY 2015-16 and it was 70 & 30 for AY 2013 to 2015.
- To ensure uniform attention of the students to their work throughout each semester of their study, periodic tests (Sessional Examinations) are conducted for each semester as per guidelines given by Savitribai Phule Pune University.
- 75% attendance for both theory and practical classes separately shall be mandatory to appear for sessional examination.

➤ **AY July 2013 to Jun 2015 (2013 pattern)**

- The institutional examination committee shall consist of Principal (Chairman), & four teachers nominated by the Principal.
- One sessional examination is conducted as per the examination scheme of SPPU.
- The students who secure less than 40% marks in the sessional examination or unable to appear for the scheduled sessional examination may be permitted for the re-sessional.

**Practical sessional examination** of 30 marks is 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 –

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

- 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)	= 10 marks
	Total	= 30 marks
	Duration	1 Hr 30 minutes

- 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.
- Scaling down technique is implemented for the periodic test.

➤ **From AY 2015 to 2016 (2015 Pattern)**

- Semester assessment is of 40 marks for theory which include 20 marks for sessional examination and 20 marks for continuous assessment.

- Similarly Semester assessment is of 40 marks for practical which include 20 marks for practical examination and 20 marks for continuous assessment.
- The pattern for continuous assessment for theory and practical may includes
  - 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 class teacher in consultation with the head of Department/teaching faculty shall decide the nature of question for the unit test.
- 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.
- **Practical sessional examination** of 20 marks is be based on internal assessment of practical (Experimental work), viva, synopsis and laboratory record. The distribution of marks for practical examination is as follows ;

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

- **Practical Continuous Assessment** of 20 marks is be based on variety of examination procedures mentioned by SPPU and is as follows;

Sr. No.	Head	Marks distribution
1.	Attendance	04
2.	Synopsis	04
3.	Viva	04
4.	Journal	04
5.	Performance	04
	<b>Total Marks</b>	<b>20</b>

- **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 is as follows'

Sr. No.	Head	Marks distribution
Q. 1.	2marks X 3 questions (out of five)	= 06 marks
Q. 2.	4marks X 2 questions (out of three)	= 08 marks
Q. 3.	6 marks X 1 questions (out of two)	= 06 marks
	<b>Total Marks</b>	<b>= 20 marks</b>
	Duration	1 Hr

- Internal sessional examination papers are set by the subject teachers and these papers are reviewed by respective Head of the Departments & after revision (if any) are submitted in a sealed envelope to the examination section.
- In addition to the internal sessional examinations, college follows feedback on Quality of Experiments and Course outcome which is a part of continuous evaluation system.
- **Theory Continuous Assessment** of 20 marks is be based on variety of examination procedures mentioned by SPPU and is as follows:

Sr. No.	Head	Marks distribution
1.	Assignment	05
2.	Written Test	10
3.	Multiple Choice Question	05
	<b>Total Marks</b>	<b>20</b>

### 2.2.3 Quality of Students Projects (15)

*(Quality of the project is measured in terms of consideration to factors including, but not limited to, cost, type {application, product, research, review etc.} environment, safety, ethics and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes, and to enhance the relevance of projects. Mention Implementation details including details of POs addressed through the projects with justification)*

- The syllabus for B.Pharm program does not demand research activity/projects by the undergraduate students throughout the four year program. However, to encourage the students in understanding of earth processes, evaluating alternative energy systems, pollution control and mitigation, natural resource management and the effects of global climate change and current research thrust & to update knowledge with respect to Pharmaceutical industry, the university has recommended to conduct two courses i.e. Environmental Science & Industrial training.

#### A. Environmental Projects

1. A course in Environmental Awareness with duration of six months (30 lectures of one hour duration & field work of 10 hours duration) was introduced at the

Semester III of second year of degree course B. Pharmacy as a compulsory course.

2. A course Coordinator/ Qualified teacher is appointed to organize teaching and evaluation by the Principal.
3. The college on behalf of the University will conduct the examination of this subject Immediately before or after Semester examinations of S.Y./T.Y./Final Year B. Pharmacy.
4. The student should clear this subject before passing the Final Year B. Pharm Examination and in order to obtain degree certificate.
5. Examination: the College will organize the evaluation and the Principal will 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.

6. Evaluation Pattern:

Sr. No.	Head	Marks distribution
1.	Multiple choice questions	50
2.	Essay type questions	25
3.	Field works	25
	<b>Total Marks</b>	<b>100</b>
	<b>Passing Marks</b>	<b>40</b>

Following Grades are awarded to the students based on their marks obtained.

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



**Table 9:** Projects by students

Academic Year	Student Name/s	Title of the Project	Guide
2014-15	Mr. Gugale Rohit R.	Evaluation of herbal extract use as Ink [Third prize]	Mrs. C. T. Nemade
	Wagh Anuja Jain Satyam	Acid rain	Dr. A.B. Upaganalawar
	Merchant Bilal Gundewar Shubham	Design, developing SAR around 2-amino group on Benzamide derivatives for glucokinase activity	Dr. V. A. Chatpalliwar
2015-16	Shinde K. V. Ugale S. S.	Water resources in Maharashtra	Mr. V. S. Gulecha
	Gajare S. N. Nimodiya S.	Biofertilizers	Mr. V. S. Gulecha
	Patil Daval Kadam Ambadas	Disposal Methods of Waste Pharmaceuticals	Dr. A. B. Upaganalawar
	Dabhade Chetana S. Patil Ankita R.	Environmental hazards of plastics	Dr. S. B. Patil
	Shinde Ashwini Shinde Kaveri	Biodiversity	Mr. H. V. Shahare
2016-17	Pokharna Pornima S. Raut Pratiksha M.	Formulation and evaluation of Herbal hair dye	Mrs. C. T. Nemade
	Himani Rana Mahale Ashutosh B.	Study of Organoleptic microscopic and physical parameters of leaves of Hedychium corarium	Mrs. C. T. Nemade
	Gorwadker Jayesh Jain Bhushan	Slaughter House waste: Effects on Environment	Dr. A. B. Upaganalawar
	Bhavsar Mayuresh D. Papdiwal Akshay R.	Need to Conserve Natural Resources	Dr. S. B. Patil
	Bedmutha Sakshi	Carbon Neutrality	Dr. A. S. Mundada
	Gundecha kamlesh	Bhopal Gas tragedy	Mr. H. V. Shahare
	Golecha Sanjana Kale Vaishnavi	Biofuels: Substitute to Petrol	Mr. H. V. Shahare
	Chopda Bhushan Shelke Dadasaheb	Desert Ecosystem	Dr. M. A. Chordiya
Sancheti Vaibhav Patni Abhijeet	Climate changes on quality of grapes	Dr. M. A. Chordiya	

**B. Industrial Training**

- As per these guidelines, every candidate shall be required to work for at least four weeks in a Pharmaceutical Industry which 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 ( After 2nd year), and will submit satisfactory report of such work to the head of the institute.

- The candidate will 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.



Figure 16: Industrial Training

#### 2.2.4 Initiatives related to Industry and /or Hospital Interaction (20)

- Institute encourages collaboration with different pharmaceutical industries and hospitals.
- Institute has signed Memorandum of Understanding with the following

**Table 10:** Initiatives related to Industry and /or Hospital Interaction

Academic Year	Industry / Hospital Name	Type of Interaction	Remarks
2014-15	RAP Analytical Research & Training Centre. Nashik ( MS)	<ul style="list-style-type: none"> <li>• Training on instruments like HPLC, GC &amp; UV-VIS</li> <li>• Sample analysis</li> </ul>	• 12 students attended
2015-16	M.B. Sugars & Pharmaceuticals Limited, Malegaon, Dist. Nashik	<ul style="list-style-type: none"> <li>• Industrial visit</li> <li>• Technical consultancy</li> </ul>	<ul style="list-style-type: none"> <li>• 58 students visited</li> <li>• Directly compressed Mannitol Tablets</li> </ul>
	Chopda Medicare & Research Centre Pvt. Ltd., Magnum Heart Institute, Nashik	<ul style="list-style-type: none"> <li>• Sharing of Medical/ Clinical &amp; Academic Research</li> </ul>	• 62 students attended
	Dr. Lad Navjeevan Hospital, Nashik	<ul style="list-style-type: none"> <li>• Sharing of Medical/ Clinical &amp; Academic Research</li> </ul>	• 46 students attended
	Shree. R.P.Chordiya Hospital, Chandwad	<ul style="list-style-type: none"> <li>• Case studies in clinical Pharmacology</li> </ul>	• 60 students attended
2016-17	Core Analytical Private Limited., Nashik. ( MS)	<ul style="list-style-type: none"> <li>• Training on instruments like HPLC, GC &amp; UV-VIS</li> <li>• Sample analysis</li> </ul>	-
2016-17	Shree. R.P.Chordiya Hospital, Chandwad	<ul style="list-style-type: none"> <li>• Case studies in clinical Pharmacology</li> </ul>	• 54 students attended

- Many experts from various pharmaceutical industries are regularly invited to share their experience/ research activities

AY	Name of Speaker	Topic	Industry
2014-15	Mr. Alkesh Rajendra Kasliwal	Advances Technology Transfer	Sr. Research Officer, Glenmark Pharmaceuticals Ltd., Sinnar, Nashik
	Mr. Swapnil Chudiwal	Nasal Drug Delivery System	Research Scientist, Wockhardt Research Centre, Aurangabad.
	Mr. Sameer Patil	Quality by Design	Research Scientists Glenmark Generics Ltd., Glenmark Research centre, Plot no: M-4, MIDC Industrial Area, Taloja, Mumbai.
	Mr. Sanjay M. Chandratre	Advances in Manufacturing Technology	Manufacturing Manager GlaxoSmithKline Pharmaceuticals Ltd., A-10, MIDC Industrial Area Ambad, Nashik-422010

	Dr. Vijay J. Ahire	Novel Delivery Systems	Business Development Manager, Pharmaceuticals Division. Gattefosse India Pvt. Ltd., Mumbai.
<b>Dec 12<sup>th</sup> -14<sup>th</sup> 2014</b>	Industrial visit for B.Pharm III yr students	Alcon Pharmaceuticals Ltd., Kharghar, Mumbai	IPA, Maharashtra state branch organized.
2015-16	Mr. Amol Garde	Demonstration Of Freeze Dry system	Service Engg. CB House-1, Jaydeep Nagar, Mumbai.
	Mr. Suraj Datir	Fluid Bed Processing	Process Executive, ACG Pharmatech.Pvt. Ltd., (Pam- Glatt), Shirwal, Satara Road, Pune.
	Mr. Sameer Patil	Lyophilization Process for Pharmaceuticals	Research Officer, Glenmark Generics Ltd., Taloja, MIDC, Mumbai.
	Dr. Himanshu Agrawal	Gastro retentive drug delivery systems	Senior Research Officer-R&D Glenmark Pharmaceuticals Ltd., Mumbai.
	Dr. Abhinav Agrawal	Nanocarriers as Drug Delivery System	Research Officer-F&D Glenmark Pharmaceuticals Ltd. Mumbai.
<b>Sept. 21<sup>st</sup> &amp; 22<sup>nd</sup> 2015</b>	Industrial visit for B.Pharm III yr students	<ul style="list-style-type: none"> <li>• Glenmark Pharmaceuticals Ltd., Baddi ( HP)</li> <li>• Ayurved Pvt. Ltd. Baddi ( HP)</li> </ul>	SNJB's SSDJ College of Pharmacy, Chandwad.
2016-17	Dr. Vijay Chandankar	Competitive Examinations: MPSC, UPSC	Glenmark Pharmaceuticals Ltd., Sinnar, Nashik
	Mr. Sanjay M. Chandratre	Good Manufacturing Practices	Manufacturing Manager GlaxoSmithKline Pharmaceuticals Ltd., A-10,MIDC, Industrial Area Ambad, Nashik-422010
	Dr. Brahmanand R. Dube	Intellectual Property Rights	Research Scientist, Global IP & Strategic Planning Wockhardt Ltd., Aurangabad
	Mr. Pravin Bhutada	Novel Drug Delivery Systems	Principal Research Scientist, Lupin Research Park, Pune
	Dr. Swapnil S. Chudiwal	Nasal Drug Delivery System	Manager, Regulatory Affairs, Wockhardt Ltd., Aurangabad
	Mr. Shripad Gadhingalajkar	Introduction to GMP	Deputy General Manager, F and D, FDC Ltd., Jogeshwari, Mumbai

### 2.2.5 Initiatives related to Skill Development programs/industry internship/summer training (10)

- Institute has made mandatory industrial training for B.Pharm students as per the guidelines of SPPU.
- Our Training and Placement department is helping the students in identifying and placing in various pharmaceutical industries.

**Table 11:** Initiatives related to skill development programs/industry internship

AY	Type of Program ( Technical/Managerial/Soft skills)	Industry/Institute	Remarks
2014-15			
09/08/2014	Admission counseling for Abroad Universities	Mr. Amit Gore M/s. Study At Abroad, Nashik	B.Pharm., IV M.Pharm., year students
20/08/2014	Use of different software's in Pharmaceutical Research work	Mr. Rohan Pawar M/s. RAP Analytical Research & Training Centre, Nashik	B.Pharm., IV M.Pharm., year students
21/08/2014	Personality Development & Group Discussion	Mr. Chandrahas Songirkar M/s. ITM Group of Institutions, Mumbai	B.Pharm., M.Pharm., year students
2015-16			
20/02/2016	Autography of Dr. A.P.J.Addul Kalam and India vision 2020	Mr. Mahendra Patil Sanskar Gurukl, Dhule	B.Pharm., M.Pharm., year students
03/03/2016	Career guidance and various job opportunities through MPSC & UPSC	M/s. Spectrum Academy, Nashik	B.Pharm III, IV, M.Pharm., year students
2016-17			
16/09/2016 & 17/09/2016	Art of living skill development ( Yoga, Pranayam etc)	Sri. Rural Development Programme Trust, Art of living International Centre, Bangalore.	B.Pharm III, IV, M.Pharm., year & Faculty
2017-18			
08/07/2017	Self employment support	Skilling India, Nashik	B.Pharm III, IV, M.Pharm., year students

### 2.2.6 Continuous Evaluation Process (10)

- The institute follows evaluation process given by Savitribai Phule Pune University, Pune.
- The continuous evaluation process is based on internal assessment of theory and practicals conducted by institution and semester end examinations conducted by University.

#### ➤ AY 2013 to 2015

- 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 for each semester. The students who 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
- **Practical sessional examination** of 30 marks is 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:

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

- 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)	= 10 marks
	Total	= 30 marks
	Duration	1 Hr 30 minutes

- **The pattern for University theory examination question paper is as follows:**

Sr. No.	Head	Marks distribution
Section –I		
Q. 1.	Long answers question	10 marks
Q. 2.	Small answers questions	15 marks
Q. 3.	Short answers questions	10 marks
Section – II		
Q. 4.	Long answers question	10 marks
Q. 5.	Small answers questions	15 marks
Q. 6.	Short answers questions	10 marks
	<b>Total Marks</b>	<b>70</b>

- **Scheme for University Practical Examination**

Sr. No.	Head	Marks distribution
1.	Synopsis	10
2.	Major Experiment	30
3.	Minor Experiment	20
4.	Viva	10
	<b>Total Marks</b>	<b>70</b>

- **From AY 2015**

- Internal assessment is of 40 marks which include 20 marks for theory and practical sessional and 20 marks for continuous assessment for theory and practical.

Continuous assessments include:

- 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 presentatione
- e) Short Quizzes
- f) Assignmentsg
- g) Extension workh
- 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 class teacher in consultation with the head of Department/ teaching faculty shall decide the nature of question for the unit test.
- 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.
- **Practical sessional examination** of 20 marks is be based on internal assessment of practical (Experimental work), viva, synopsis and laboratory record. The distribution of marks for practical examination is as follows:

Sr. No.	Head	Marks distribution
1.	Experimental work	10
2.	Synopsis & Viva	06
3.	Lab Record	04
	<b>Total Marks</b>	<b>20</b>

- **Practical Continuos Assessment** of 20 marks is be based on variety of examination procedures mentioned by SPPU and is as follows:

Sr. No.	Head	Marks distribution
1.	Attendance	04
2.	Synopsis	04
3.	Viva	04
4.	Journal	04
5.	Performance	04
	<b>Total Marks</b>	<b>20</b>



- **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 is as follows:

Sr. No.	Head	Marks distribution
Q. 1.	2marks X 3 questions (out of five)	= 06 marks
Q. 2.	4marks X 2 questions (out of three)	= 08 marks
Q. 3.	6 marks X 1 questions (out of two)	= 06 marks
	<b>Total Marks</b>	<b>= 20 marks</b>

- Internal sessional examination papers are set by the subject teachers and these papers are reviewed by respective Head of the Departments & after revision (if any) are submitted in a sealed envelope to the examination section.
- In addition to the internal sessional examinations, college follows feedback on Quality of Experiments and Course outcome which is a part of continuous evaluation system.
- **Theory Continuos Assessment** of 20 marks is be based on variety of examination procedures mentioned by SPPU and is as follows:

Sr. No.	Head	Marks distribution
1.	Assignment	05
2.	Written Test	10
3.	Multiple Choice Question	05
	<b>Total Marks</b>	<b>20</b>

- **The pattern for University theory examination question paper is as follows:**

Sr. No.	Head	Marks distribution
<b>Section – I</b>		
Q. 1.	Long answers question	10 marks
Q. 2.	Small answers questions – 3 marks	12 marks
Q. 3.	Short answers questions – 5 marks	08 marks
<b>Section – II</b>		
Q. 1.	Long answers question	10 marks
Q. 2.	Small answers questions – 3 marks	12 marks
Q. 3.	Short answers questions – 5 marks	08 marks
	<b>Total Marks</b>	<b>60</b>

- **Scheme for University Practical Examination**

Sr. No.	Head	Marks distribution
1.	Synopsis	10
2.	Major Experiment	25
3.	Minor Experiment	15
4.	Viva	10
	<b>Total Marks</b>	<b>60</b>

### 2.2.7 Quality of Experiments (20)

- The institution has a machine room with pilot-plant scale facility and sophisticated instruments such as UV-Visible Spectrophotometer, HPLC
- All laboratories of the college are well equipped with the basic requirements as per syllabus of Savitribai Phule Pune University.
- Savitribai Phule Pune University curriculum specifies the number of experiments in each course with the type of practicals to be conducted & the institution strictly follows the same.
- All the students are given demonstration by experienced faculty and hands on experience on equipments. Thus, students can correlate theoretical concepts with practical knowledge, enabling them to have a better understanding of the subject.
- Safe handling of chemicals through Material Safety Data Sheet (MSDS), instruments and equipments through SOP are taught to students.
- The significance of documentation, especially SOPs, ICH guidelines, regulatory guidelines like US FDA, SUPAC, Sch. M etc. are explained to know the latest trends to meet the industrial requirements.
- **Department of Pharmaceutics** has pilot plant laboratory developed as per GMP requirements and has machines like spray dryer, Freeze dryer, fluidized bed processor (FBP), compression machine and tablet coater.
- **The Pharmaceutical Chemistry Department** pays onus to ethics, purity, and cleanliness of work. Simple laboratory adjustments have been made to meet the tough and cumbersome requirements of chemistry practicals, such as use of water-trap to absorb obnoxious gases issued from reactions; use of calibrated thermometers for determining melting point of every synthesized compound; use of manifold arrangement for vacuum filtration of compounds that also ease the drying process. In the laboratory of analysis experiments, replicates of solutions are prepared using single volumetric apparatus to avoid much variation in concentrations of analyte

solutions. Water used in the laboratories of pharmaceutical chemistry for experimental use in of RO standard.

- **Department of Pharmacology** has well established animal house as per regulatory guidelines, laboratory had design to work on neuropathic pain with sophisticated instruments like Randall Sellito analgesiometer, Von fray hair test ( in house fabricated instrument), Plethysmometer, biochemical analyser, high speed cooling centrifuge etc.
- **Department of Pharmacognosy** has well developed Crude drug museum and Medicinal garden. The laboratory is well equipped with different instruments like Motic Microscope, Rota evaporator, Microtome, Furnace, Hot air oven, Moisture balance, projection microscope etc. The charts of microscopy of different crude drugs, epidermal structures, etc. are displayed in the laboratory.

SNJB'S SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY  
JAIN GURUKUL, NEMINAGAR AT/P. CHANDWAD  
Tal. Chandwad Dist. Nashik-422 101.

**Quality of Experiments Feedback Form (B.Pharmacy Program)**  
*(Quality from the equipment set-up and performance perspective)*

1. Student Name: THOTARE KANDESA GOPINATH

2. Year / Semester: Final year ( 2019-2020 ) (2019-20)

3. Course Name: B. Pharmacy ( Medicinal Chemistry )

4. Laboratory Name: Pharmacokinetics

1= Poor 2= Average 3= Good 4= Very Good 5= Excellent

(a) Availability of Instruments/Equipments to conduct the experiments. 1 3 2 4 3 5

(b) Operational status of Instruments/Equipments 1 2 3 4 5

(c) Are SOP of all instruments/ Equipments are available & reviewed regularly. 1 2 3 4 5

(d) Are instruments/ Equipments cleaned regularly? 1 2 3 4 5

(e) To what degree was the actual lab environment simulated? 1 2 3 4 5

(f) The manuals were found to be helpful? 1 2 3 4 5

(g) The results of experiment were easily interpretable? 1 2 3 4 5

(h) Did you have the feeling of actual lab while performing the experiments? 1 2 3 4 5

(i) Did you go through the Manual / Step by step method before performing the five experiments? 1 2 3 4 5


(j) Could you measure and analyze the data successfully? 1 2 3 4 5

(k) Could you compare your results with the given typical result? 1 2 3 4 5

PTD

**Figure 17:** Quality of experiment feedback form

A sample copy of Standard Operating procedure is shown in following figure

	<b>SNJB's</b> <b>SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY</b> <b>JAIN GURUKUL, NEMINAGAR,</b> <b>AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101</b>	
	<b>UV Visible Spectrophotometer</b>	
<b>Make:</b> Shimadzu Corp. Japan	<b>Version:</b> 04	
<b>Model:</b> 01844	<b>Date of Purchase:</b> 21/05/2014	
<b>Department:</b> Pharmaceutical Chemistry	<b>SOP Revision Date:</b> 02/07/2018	
<b>Deadstock No.:</b> SSDJ/2013-14/UV Spectrophotometer/L1		
<b>STANDARD OPERATING PROCEDURE</b>		
<b>1. Purpose</b> The purpose of this SOP is to describe the operation of UV-Visible Spectrophotometer (Shimadzu UV-01844).		
<b>2. Scope</b> The procedure described in this SOP is applicable to all the students, faculty of department of Pharmaceutical Chemistry and those who are operating the instrument.		
<b>3. Responsibility</b> The students and the faculty of the department of Pharmaceutical Chemistry.		
<b>4. Operating Procedure</b>		
i. Switch <b>ON</b> the wall socket. Then switch <b>ON</b> the unit mains by sliding up the circuit provided on the side panel.		
ii. Allow the instrument to initialize and wait for 30 min to lamp warm-up.		
iii. <b>Login</b> to the UV-Vis by pressing enter on the keypad (on the instrument itself). There is no password.		
iv. Switch <b>ON</b> the computer attached to UV- spectrophotometer and Open UV probe.		
 <b>(Dr. S. B. Aher)</b> Asst. Professor	 <b>(Dr. V. A. Chutpaliwar)</b> HOD, Dept. of Pharma. Chem.	 <b>(Dr. C. D. Upasani)</b> Principal
<b>STRICTLY CONFIDENTIAL</b>		
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**Figure 18:** Standard Operating Procedure


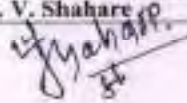
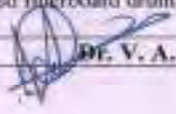

 <b>SNJB's SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY</b> JAIN GURUKUL, NEMINAGAR, AT/P. CHANDWAD, Tal. Chandwad, Dist, Nashik-423 101.																
<b>MSDS of HCl</b>																
<b>Synonyms</b>	Muriatic acid; Hydrogen chloride, aqueous; Chlorohydric acid, <i>spirits of salt</i>															
<b>State, Color Solubility:</b>	Colorless to light yellow liquid, Soluble in cold water, hot water, diethyl ether															
<b>Composition information on ingredients</b>	<table border="1"> <thead> <tr> <th>Components</th> <th>Formula</th> <th>Weight</th> <th>Hazardous</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>Hydrochloric Acid</td> <td>HCl</td> <td>36.46</td> <td>Yes</td> <td>36.5 - 38.0</td> </tr> <tr> <td>Water</td> <td>H<sub>2</sub>O</td> <td>18.02</td> <td>No</td> <td>62.0 - 63.5</td> </tr> </tbody> </table>	Components	Formula	Weight	Hazardous	Weight	Hydrochloric Acid	HCl	36.46	Yes	36.5 - 38.0	Water	H <sub>2</sub> O	18.02	No	62.0 - 63.5
Components	Formula	Weight	Hazardous	Weight												
Hydrochloric Acid	HCl	36.46	Yes	36.5 - 38.0												
Water	H <sub>2</sub> O	18.02	No	62.0 - 63.5												
<b>Boiling point</b>	108.58° C at 760 mm Hg (for 20.22% HCl in water) 83° C at 760 mm Hg (for 31% HCl in water) 50.5° C (for 37% HCl in water)															
<b>Hazard identification</b>	<ul style="list-style-type: none"> <li><b>Emergency Overview:</b> DANGER! Corrosive. Causes severe skin, eye, and digestive tract burns. Harmful if swallowed. Mist or vapor extremely irritating to eyes and respiratory tract.</li> <li><b>Route of exposure:</b> Inhalation, ingestion, skin contact, eye contact</li> <li><b>Target Organs:</b> Skin, respiratory system, eyes, lungs</li> </ul>															
<b>Personnel Protection</b>	Face shield, Full suit, Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves, Boots															
<b>First Aid Procedures</b>	<ul style="list-style-type: none"> <li><b>Inhalation:</b> Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention immediately.</li> <li><b>Ingestion:</b> Do not induce vomiting. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.</li> <li><b>Skin Contact:</b> Flush affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.</li> <li><b>Eye Contact:</b> Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.</li> <li><b>General Advice:</b> In the case of accident or if you feel unwell, seek medical advice immediately. Show this safety data sheet to the doctor in attendance.</li> <li><b>Notes to Physician:</b> Treat symptomatically. Keep victim under observation.</li> </ul>															
<b>Accidental release measure</b>	<ul style="list-style-type: none"> <li><b>Small Spill:</b> Dilute with water and mop up, or absorb with an inert dry material.</li> <li><b>Large Spill:</b> Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Neutralize the residue with a dilute solution of sodium carbonate.</li> </ul>															
<b>Toxicological Information</b>	<b>Routes of Entry:</b> Absorbed through skin, Dermal contact, Eye contact, Inhalation. May cause damage to the following organs: kidneys, liver, mucous membranes, upper respiratory tract, skin, eyes, Circulatory System, teeth.															
<b>Handling and Storage</b>	<ul style="list-style-type: none"> <li>Do not ingest. Do not breathe gas/fumes/vapor/spray. Never add water in it.</li> <li>Keep container tightly closed and store in a safe place. Keep locked up and container dry. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.</li> </ul>															
Prof. H. V. Shahare  <span style="float: right;">Dr. V. A. Chatpalliwar </span>																
																

Figure 19: Material Safety Data Sheet (MSDS)

## **CRITERION 3**

### **Course Outcomes (COs) and Program Outcomes (POs)**

<b>CRITERION 3</b>	<b>Course Outcomes (COs) and Program Outcomes (POs)</b>	<b>100</b>
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**3.1. Establish the correlation between the courses and the Program Outcomes (20)**  
(NBA defined Program Outcomes as mentioned in Annexure I)

**3.1.1. Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses) (05)**

*Note: Number of Outcomes for a Course is expected to be around 6.*

**Course Name: COiii Year of Study: YYYY – YY; for ex. CO112 Year of study 2014-15**

<b>Statement</b>	
The students should be able to	
<b>CO 112.1</b>	Understand compounding, dispensing & counseling of a pharmaceutical product.
<b>CO 112.2</b>	Report information to health care professionals regarding various ADR, idiosyncrasy & Pharmacovigilance.
<b>CO 112.3</b>	Community pharmacist - Role of pharmacist in health care system and patient counseling regarding safe use of medicines.
<b>CO 112.4</b>	Compounding & dispensing of various dosage form like mouthwash, gargle, liniment, emulsion, suspension, etc.
<b>CO 112.5</b>	Calculation of drug-dose according to age, body weight and surface area.
<b>CO 112.6</b>	Remember physical, chemical & therapeutic incompatibility with respect to dosage form.

Code **CO112** is the Course code for Modern Dispensing Practices and points **CO112.1** to **CO112.6** are the outcomes of this course.

<b>Statement</b>	
The students should be able to	
<b>CO 124.1</b>	Explain basic fundamental structural and functional features of nervous system.
<b>CO 124.2</b>	Clarify various sense organs involved in homeostasis.
<b>CO 124.3</b>	Basic anatomical and physiological importance of respiratory system with clinical significance.
<b>CO 124.4</b>	Discuss the essentials of urinary systems involve in regulation of Body functions.
<b>CO 124.5</b>	Demonstrate and aware the students related various parameters are use to check and regulate the normal functions of Human body.
<b>CO 124.6</b>	Explain structural and microscopical aspects of various organs of human system.

Code **CO124** is the Course code for Human Anatomy & Physiology-II and points **CO124.1** to **CO124.6** are the outcomes of this course.

<b>Statement</b>	
The students should be able to	
<b>CO 232.1</b>	Elucidate the historical development, structural features, biology and characteristics of important microbes.
<b>CO 232.2</b>	Explain classification, mechanism of action & effectiveness of disinfectants & sterilization processes & their importance.
<b>CO 232.3</b>	Focus on various aspects of immunology & basic concepts of antigen-antibody reaction.
<b>CO 232.4</b>	Gain knowledge about the vaccines and their classification, type of vaccines and their methods of preparation.
<b>CO 232.5</b>	Understand aseptic procedure for bacteriological media preparation & isolation of microbes by streak & pour plate technique.
<b>CO 232.6</b>	Elucidate the morphology of bacteria by simple staining, negative staining, gram staining & motility by hanging drop technique.

Code **CO232** is the Course code for Pharmaceutical Microbiology & Immunology and points **CO232.1** to **CO232.6** are the outcomes of this course.

<b>Statement</b>	
The students should be able to	
<b>CO 241.1</b>	Acquire sufficient knowledge about surface and interfacial tension and its measurement. Describe spreading coefficient and adsorption isotherms and their significance.
<b>CO 241.2</b>	Understand the fundamentals and pharmaceutical applications of rheology and micromeritics.
<b>CO 241.3</b>	Explain reaction kinetics and factors affecting the rate of the reaction. Memorize various routes of degradation of drugs & principle methods of stabilization of Drugs etc.
<b>CO 241.4</b>	Know types, properties and applications of colloids in the formulations.
<b>CO 241.5</b>	Calculate the degree of hydrolysis, energy of activation and relative strength of two acids.
<b>CO 241.6</b>	Evaluate viscosity, surface tension, specific surface area, particle size distribution & derived properties of given material.

Code **CO241** is the Course code for Physical Pharmaceutics-II and points **CO241.1** to **CO241.6** are the outcomes of this course.



<b>Statement</b>	
The students should be able to	
<b>CO 353.1</b>	Understand the process of neurotransmission, neurotransmitters, and different types of receptors, involved in maintaining well-being of a body.
<b>CO 353.2</b>	Remember different types of receptors, their structures, receptors-ligand interactions, and mechanism of receptor action.
<b>CO 353.3</b>	Classify the existing pharmacological agents according to the neurotransmitter they mimic or antagonize.
<b>CO 353.4</b>	Compare different group of drugs according to their chemical classification, mechanism of action/s; drugs influencing adrenergic, cholinergic, and cardiovascular system.
<b>CO 353.5</b>	Compare the drugs as per their physiochemical properties and co-relate to their potency, duration and action.
<b>CO 353.6</b>	Reproduce the synthetic pathways of few selected drugs from adrenergic, cholinergic, and cardiovascular system.

Code **CO 353** is the Course code for Medicinal Chemistry – I and **CO353.1** to **CO353.6** are the outcomes of this course.

<b>Statement</b>	
The students should be able to	
<b>CO 356.1</b>	Understand the basic concepts of pharmaceutical business management and strategy.
<b>CO 356.2</b>	Get in-depth knowledge about pharmaceutical material management with inventory control management.
<b>CO 356.3</b>	Gain basic knowledge about drug store and hospital with their role related to patient care.
<b>CO 356.4</b>	Acquire basic concepts of pharmaceutical marketing.
<b>CO 356.5</b>	Understand the role of Human Resource Management in pharmaceutical industry with emphasis on interview techniques and recruitment.
<b>CO 356.6</b>	Gain knowledge about disaster management, its preparedness and mitigation.

Code **CO 356** is the Course code for Pharmaceutical Business Management and Disaster Management and **CO356.1** to **CO356.6** are the outcomes of this course.

Statement	
The students should be able to	
CO 40608.1	Explain meaning & significance of Pharmacognostic parameters & Pharmacognostic study of crude drugs.
CO 40608.2	Understand & explain method of preparation of Ayurvedic dosage forms.
CO 40608.3	Understand & explain safe use of natural products, possible toxicities & interaction, toxicities.
CO 40608.4	Identify unorganized crude drugs & samples of powders of organized & unorganized crude drugs using morphological, chemical, physical & microscopical characteristics.
CO 40608.5	Explain source, extraction, Isolation, evaluation by UV and chromatography of Phytochemicals.
CO 40608.6	Prepare, label & evaluate herbal cosmetic formulations.

Code **CO 40608** is in Annual pattern of final year, **40608** is the Course code for Pharmacognosy-III and **CO40608.1** to **CO40608.6** are the outcomes of this course.

Statement	
The students should be able to:	
CO 40508.1	Explain the general principles of chemotherapy.
CO 40508.2	Understand Pharmacology of drugs used in the treatment of infectious diseases.
CO 40508.3	Get in-depth knowledge about pharmacotherapy of drugs used in cardiovascular disorders.
CO 40508.4	Know and explain the importance of hospital pharmacy.
CO 40508.5	Understand clinical trials and its ethics.
CO 40508.6	Analyze the rational and irrational fixed dose combinations based on various parameters.

Code **CO 40508** is in Annual pattern of final year, **40508** is the Course code for Pharmacology IV and **CO40508.1** to **CO40508.6** are the outcomes of this course.

**3.1.2 CO-PO matrices of courses selected in 3.1.1 (four matrices to be mentioned; one per semester from 1st to 8th semester; at least one per year) (05)**

- PO are assigned to each course outcomes, for each course every year. The PO matrixing with the course outcomes are mapped by concerned faculty. Each PO was rated as: either high (3), or moderate (2) or slight (1) attainment levels.
- These are assigned based on the feasibility of assessment and their content in the context of the course details.

Modern Dispensing Practices	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 112.1	3	2	2	2	2	3	2	3	3	-	3
	CO 112.2	3	2	2	2	-	2	1	2	2	-	1
	CO 112.3	3	1	2	2	2	3	2	3	3	1	3
	CO 112.4	3	2	2	1	-	2	1	1	1	-	2
	CO 112.5	2	-	1	1	-	1	1	-	1	-	2
	CO 112.6	3	1	3	1	-	2	1	-	1	-	2
	<b>CO 112</b>	<b>2.83</b>	<b>1.33</b>	<b>2</b>	<b>1.5</b>	<b>0.66</b>	<b>2.16</b>	<b>1.5</b>	<b>1.5</b>	<b>1.83</b>	<b>0.16</b>	<b>2.16</b>

Human Anatomy & Physiology-II	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 124.1	3	1	1	1	1	1	1	1	1	1	2
	CO 124.2	3	1	-	1	2	1	-	1	1	-	2
	CO 124.3	3	1	1	2	1	1	2	1	1	1	2
	CO 124.4	3	1	-	1	-	1	-	1	1	1	2
	CO 124.5	3	1	1	-	2	1	1	-	1	1	2
	CO 124.6	3	2	1	2	1	1	-	1	-	1	2
	<b>CO124</b>	<b>3</b>	<b>1.16</b>	<b>0.66</b>	<b>1.16</b>	<b>1.16</b>	<b>1</b>	<b>0.66</b>	<b>0.83</b>	<b>0.83</b>	<b>0.83</b>	<b>2</b>

Pharmaceutical Microbiology & Immunology	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 232.1	3	-	-	1	-	2	-	-	-	-	2
	CO 232.2	3	-	-	1	-	3	3	-	2	2	3
	CO 232.3	3	-	-	1	-	3	-	-	-	-	3
	CO 232.4	3	-	1	-	2	2	3	3	2	-	3
	CO 232.5	3	3	1	1	3	2	-	-	1	2	2
	CO 232.6	3	3	1	1	1	2	-	3	1	2	2
	<b>CO 232</b>	<b>3</b>	<b>1</b>	<b>0.5</b>	<b>0.8</b>	<b>1</b>	<b>2.3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2.5</b>

Physical Pharmaceutics-II	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 241.1	3	1	2	2	1	1	1	2	1	-	3
	CO 241.2	3	2	1	3	1	1	1	2	1	-	3
	CO 241.3	3	1	2	2	-	1	1	2	1	-	3
	CO 241.4	3	1	1	2	-	1	1	-	1	-	3
	CO 241.5	3	3	2	1	2	1	1	-	1	-	3
	CO 241.6	3	3	2	3	2	1	1	-	1	-	3
	<b>CO 241</b>	<b>3</b>	<b>1.8</b>	<b>1.6</b>	<b>2.1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>3</b>

Medicinal Chemistry- I	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 353.1	3	2	3	3	-	2	3	2	2	2	2
	CO 353.2	3	2	3	3	-	2	3	2	2	2	2
	CO 353.3	2	2	1	3	-	2	3	2	2	2	2
	CO 353.4	2	2	1	3	-	2	3	2	2	2	2
	CO 353.5	1	2	1	3	-	2	3	2	2	2	2
	CO 353.6	1	2	1	3	-	2	3	2	2	2	2
	<b>CO 353</b>	<b>2</b>	<b>2</b>	<b>1.6</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

Pharmaceutical Business Management and Disaster Management	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
	CO 356.1	1	3	3	1	2	1	3	1	1	1	2
	CO 356.2	2	2	1	1	2	1	3	2	1	1	2
	CO 356.3	3	1	2	1	2	2	1	2	2	3	2
	CO 356.4	2	2	1	2	3	2	1	3	1	1	1
	CO 356.5	2	3	1	1	3	2	3	2	1	1	2
	CO 356.6	1	3	3	2	3	1	1	1	1	3	2
	<b>CO 356</b>	<b>1.83</b>	<b>2.33</b>	<b>1.83</b>	<b>1.33</b>	<b>2.5</b>	<b>1.5</b>	<b>2.0</b>	<b>1.83</b>	<b>1.16</b>	<b>1.66</b>	<b>2.0</b>

	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
Pharmacognosy-III	CO 40608.1	3	-	2	-	2	3	2	2	3	3	3
	CO 40608.2	3	2	2	3	2	2	2	2	3	2	3
	CO 40608.3	3	2	3	2	2	2	2	2	3	1	3
	CO 40608.4	3	2	2	2	2	1	2	2	3	3	3
	CO 40608.5	3	2	2	3	1	2	1	2	3	1	2
	CO 40608.6	3	2	2	2	2	2	3	2	3	1	3
	<b>CO 40608</b>	3	1.67	2.17	2	1.83	2	2	2	3	1.83	2.83

	Course Outcomes	Program Outcome (PO)										
		1	2	3	4	5	6	7	8	9	10	11
Pharmacology-IV	CO 40508.1	3	1	2	1	1	2	2	1	1	1	3
	CO 40508.2	3	2	1	1	1	1	1	1	1	2	3
	CO 40508.3	3	2	1	1	2	2	1	1	1	2	3
	CO 40508.4	3	1	1	2	1	1	1	1	1	1	3
	CO 40508.5	3	2	2	1	2	2	3	1	1	1	3
	CO 40508.6	3	1	2	1	1	2	2	2	2	1	3
	<b>CO 40508</b>	3	2	3	1	1	1	2	1	2	1	3

Note: Correlation levels 1, 2 or 3 as defined: 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) If there is no correlation, put '-'

### 3.1.3 Course-PO matrix of courses for all four years of study (10)

- In Table 3.1.2, the matrixing of course outcomes and program outcomes was attempted. The details of all semesters are abstracted, made concise and are documented in Table 3.1.3. All the information is consistent with the Table 3.1.2.

Table 3. 1. 3

Course Outcomes	Program outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO111	3	1.66	2	1.5	0.66	2.16	1.5	1.5	1.83	0.16	2.16
CO112	3	1.66	2	2	0.66	3	3	1.66	2	0.16	3
CO113	3	1.5	1.5	1.16	01	1.5	1	1.1	1	1	1.6
CO114	3	1	0.6	1	0.6	1.5	1	0.6	1	1	2.3
CO115	3	1.16	1	2.66	0.83	0.83	1	1.33	1	0.83	2.33
CO116	2	2	2	2	-	2	-	3	2	-	2
CO231	3	1.6	1.8	1.3	0.6	2	2	3	1	0.1	3
CO232	3	1	0.5	0.8	1	2.3	1	1	1	1	2.5
CO233	2.71	1.42	2	3	2	1.6	2.6	2.9	0.71	2.14	2.71
CO234	3	1.5	1.33	1.33	1	1	1	1	1	1	1.3
CO235	3	1	1	1.83	1.33	1.83	1.5	3	2	0.83	3
CO236	3	1.5	2	2	2	2.17	1.67	2	3	2.33	3
CO237	3	1	1	1	1	1	1	1	1	3	3
CO351	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO352	3	1.4	1.6	1.67	1.8	1.33	1.5	2.33	2.33	1.67	2.17
CO353	2	2	1.6	3	-	2	3	2	2	2	2
CO354	3	1.5	1.7	2	1.33	2	1.3	1	1	1	2.7
CO355	3	1.3	1.3	1.3	1.17	1.7	1.7	0.8	-	1	2
CO356	1.83	2.33	1.83	1.33	2.5	1.5	2.0	1.83	1.16	1.66	2.0
CO357	3	2	2.3	2	2	3	2.6	2	3	3	2.6
CO471	3	2.6	3	-	2	2	2	2	2	2	2.5
CO472	3	1.66	1.66	1.16	1.33	1.66	1.33	1.83	1.5	1.33	1.66
CO473	3	1		1	1	1	1	1	1	1	2
CO474	3	1.66	1.5	1.33	1.5	1.5	1.5	1.33	1	1.5	3
CO475	3	2.33	2.5	2.17	2	2.33	2.67	2	3	2.17	2.83
CO476	3	1.8	1.6	1.6	1.6	2	2.1	2.3	2	1.3	2.8
CO477	3	0.6	3	1.3	0.83	1	1.1	2	3	1	2.6

CO121	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO122	2.83	2.16	1.33	1.5	-	2.83	2.66	0.33	1.16	0.16	3
CO123	3	1	1	1	0.5	1	0.5	1	1	1	2
CO124	3	1.16	0.66	1.16	1.16	1	0.66	0.83	0.83	0.83	2
CO125	3	2	2	2.5	0.5	2.1	2	2	2	3	2.5
CO126	3	2	2	2	2	1	3	2	3	2	2
CO241	3	1.8	1.6	2.1	1	1	1	1	1	-	3
CO242	3	1	2	2	1.5	2	1.5	2	1.83	1.0	3
CO243	3	1.5	3	1.5	1	1.	1	1	1	1	0.1
CO244	3	1.5	1.66	1	1.33	1.33	3	2	1.33	1.5	1.66
CO245	3	2.17	2.33	3	2.17	2.67	1.83	2.67	2.83	2.17	3
CO246	3	1	1.33	1	1	3	3	1	2	1	3
CO361	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO362	3	1	3	1.67	2	1.5	1.83	2.33	2.33	2	2.33
CO363	2	2.8	3	3	-	3	3	1.5	0.6	1.3	1.5
CO364	3	1.66	1	1.7	1	1	1.33	2	1.5	1	2.6
CO365	3	2	2.8	3	0.6	1.8	1.8	1.8	2	2	2
CO366	3	1.16	1	1	1	1	1	1	1	1	1.83
CO367	3	2.5	2.6	2.5	2.5	2	2	2	1	2	2.6
CO481	3	2	2.6	2.5	2.6	1.3	1.3	2.3	2.3	2.1	2.1
CO482	3	1.17	1.17	1	-	1	1.17	1	1	0.8	2
CO483	2.5	2	2.3	1.2	-	1	3	2	1.8	3	3
CO484	3	1	1	1	1	1	1	1	1	1	2
CO485	3	1.5	1.5	1.5	1.66	1.5	1.33	1	1.33	1.5	3
CO486	3	2	3	1.67	2.5	2.5	2.83	2.67	3	1.17	3
CO487	3	1	1	1	1	2	1	1	3	1	3

**Note:** Correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) It there is no correlation, put '-'

### 3.2. Attainment of Course Outcomes (40)

#### 3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

*(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics, and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams, focus groups etc. It is expected that each theory Course taught should impart specific knowledge and make a foundation for a set of Basic Concepts related to it. Similarly the laboratory experiments should have some predetermined and predefined skills which can be developed during the study)*

- From AY 2013 onwards, Savitribai Phule Pune University (SPPU) has introduced new examination pattern, continuous assessment wherein continuous internal assessment of the students has been mandatory. The undergraduate course structure is continuously undergoing modifications / radical change or change in evaluation system as per directives of UGC and it becomes mandatory for the affiliated colleges. The Assessment process of student performance is carried out as
  - a. Internal Assessment
  - b. University Exam Assessment

Academic year	Pattern	Internal Assessment	University Exam Assessment (Section I and Section II)
2014 -2015	2008 (Annual pattern for Third year and Final year B. Pharmacy )	Long Answer question (06 Marks) Short answer question (06 Marks) Short notes (08 Marks)	Long Answer question (10 Marks) Short answer question (15 Marks) Short notes (15 Marks)
	2013 (Semester pattern for First and Second year B. Pharmacy )	Long Answer question (10 Marks) Short answer question (10 Marks) Short notes (10 Marks)	Long Answer question (10 Marks) Short answer question (15 Marks) Short notes (10 Marks)
2015 -2016	2008 (Annual pattern for Final year B. Pharmacy )	Long Answer question (06 Marks) Short answer question (06 Marks) Short notes (08 Marks)	Long Answer question (10 Marks) Short answer question (15 Marks) Short notes (15 Marks)
	2013 (Semester pattern for Second and Third year B. Pharmacy )	Long Answer question (10 Marks) Short answer question (10 Marks) Short notes (10 Marks)	Long Answer question (10 Marks) Short answer question (15 Marks) Short notes (10 Marks)



	2015 (Credit-Grade based Performance pattern for First year B.Pharmacy)	Long Answer question (06 Marks) Short answer question (06 Marks) Short notes (08 Marks)	Long Answer question (10 Marks) Short answer question (10 Marks) Short notes (10 Marks)
2016 -2017	2013 (Semester pattern for Third and Final year B. Pharmacy )	Long Answer question (10 Marks) Short answer question (10 Marks) Short notes (10 Marks)	Long Answer question (10 Marks) Short answer question (15 Marks) Short notes (10 Marks)
	2015 (Credit-Grade based Performance pattern for First and Second year B. Pharmacy)	Long Answer question (06 Marks) Short answer question (06 Marks) Short notes (08 Marks)	Long Answer question (10 Marks) Short answer question (10 Marks) Short notes (10 Marks)

### Quality of examination

As per the curriculum prescribed by Savitribai Phule Pune University, Pune, weightages of end semester exam marks and internal exam marks were considered and it was decided to calculate the CO attainments.

**Following table will illustrate the change in examination pattern over the years.**

Patter n	Internal Examination						University Examination					
	Theory			Practical			Theory			Practical		
	Max Mar ks	Mi n. Mar ks	Min. % for cour se passi ng	Max Mar ks	Min Mar ks	Min. % for cour se passi ng	Max Mar ks	Min Mar ks	Min. % for cour se passi ng	Max Mar ks	Min Mar ks	Min. % for cour se passi ng
<b>2008</b>	20	08	40	20	09	45	80	32	40	80	36	45
<b>2013</b>	30	12	40	30	12	40	70	28	40	70	28	40
<b>2015</b>	40	16	40	40	16	40	60	24	40	60	24	40

### Internal marks

The total internal marks are 20 % for theory and 20 % for practical as per course structure and rules of Savitribai Phule Pune University, for 2008 pattern. The marks considered for calculating the program attainment for syllabus pattern 2008, 2013 and 2015 is 20 %. For the academic year 2014-2015 set target was 45%.

### University marks

The total external university examination marks are 80 % for theory and 80 % for practical as per course structure and rules of Savitribai Phule Pune University, for 2008 pattern. The marks considered for calculating the program attainment for syllabus pattern 2008, 2013 and 2015 is 80 %. For the academic year 2014-2015 set target was 45%.

The calculation is as follows:

<b>Particular</b>	<b>University Examination (Theory + Practical) 72 marks out of 160</b>	<b>Internal Examination (Theory + Practical) 18 marks out of 40</b>
Total Number of students appearing in examination	64	64
Number of students above set target	64	64
% of students above set target	100	100
Attainment level	$3 \times 0.8 = 2.4$	$3 \times 0.2 = 0.6$
Total attainment	<b><math>2.4 + 0.6 = 3</math></b>	

### 3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (30)

*Program shall have set Course Outcome attainment levels for all courses.*

*(The attainment levels shall be set considering average performance levels in the University examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the course outcomes of a course in addition to the performance in the University examination)*

*Measuring Course Outcomes attained through University Examinations*

*Target may be stated in terms of percentage of students getting more than the University average marks or more as selected by the Program in the final examination. For cases where the University does not provide useful indicators like average or median marks etc., the Program may choose an attainment level on its own with justification.*

*Example related to attainment levels Vs. targets: (The examples indicated are for reference only. Program may appropriately define levels)*

*Attainment Level 1: 60% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "1"*

*Attainment Level 2: 70% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "2"*

*Attainment Level 3: 80% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "3"*

- *Attainment is measured in terms of actual percentage of students getting set percentage of marks.*
- *If targets are achieved then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.*
- *If targets are not achieved the Program should put in place an action plan to attain the target in subsequent years.*

*Measuring CO attainment through Internal Assessments: (The examples indicated are for reference only. Program may appropriately define levels)*

*Target may be stated in terms of percentage of students getting more than class average marks or set by the Program in each of the associated COs in the assessment instruments (midterm tests, assignments, mini projects, reports and presentations etc. as mapped with the COs)*

**Example**

Mid-term test 1 addresses C202.1 and C202.2. Out of the maximum 20 marks for this test 12 marks are associated with C202.1 and 8 marks are associated with C202.2.

Examples related to attainment levels Vs. targets:

Attainment Level 1: **60%** students scoring more than 60% marks out of the **relevant maximum marks is considered to be attainment of "1"**

Attainment Level 2: **70%** students scoring more than 60% marks out of the **relevant maximum marks is considered to be attainment of "2"**

Attainment Level 3: **80%** students scoring more than 60% marks out of the **relevant maximum marks is considered to be attainment of "3"**

- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- If targets are achieved then the C202.1 and C202.2 are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.
- If targets are not achieved the Program should put in place an action plan to attain the target in subsequent years.

Similar targets and achievement are to be stated for the other midterm tests/internal assessment instruments.

**Course Outcome Attainment:**

For example:

Attainment through University Examination: Substantial i.e. 3

Attainment through Internal Assessment: Moderate i.e. 2

Assuming 80% weightage to University examination and 20% weightage to Internal assessment, the attainment calculations will be (80% of University level) + (20% of Internal level) i.e. 80% of 3 + 20% of 2 = 2.4 + 0.4 = 2.8

**Note:** Weightage of 80% to University exams is only an example. Programs may decide weightages appropriately for University exams and internal assessment with due justification.

**Table 3.2.2 a Consolidated: University + Internal Marks 2014-15**

Course Name	Code	Exam	Target	Attainment level	Total Attainment level in scale 3
Pharmaceutics- I	CO111	Internal	45	0.9	3
		University	45	2.1	
Modern dispensing practices	CO112	Internal	45	0.6	2.7
		University	45	2.1	
Pharmaceutical Inorganic Chemistry	CO113	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Organic Chemistry-I	CO114	Internal	45	0.9	3
		University	45	2.1	
Human Anatomy & Physiology-I	CO115	Internal	45	0.9	3
		University	45	2.1	
Communication and soft skill development	CO116	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutics- I	CO121	Internal	40	0.9	3
		University	40	2.1	
Dosage Form Design	CO122	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Organic Chemistry-II	CO123	Internal	45	0.9	3
		University	45	2.1	
Human Anatomy & Physiology-II	CO124	Internal	45	0.9	3
		University	45	2.1	

Pharmacognosy	CO125	Internal	45	1.2	3
		University	45	1.8	
Pharmaceutical Analysis-I	CO126	Internal	45	0.9	3
		University	45	2.1	
Physical Pharmaceutics-I	CO231	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Microbiology	CO232	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Biochemistry	CO233	Internal	45	0.6	2
		University	45	1.4	
Pharmaceutical Organic Chemistry-III	CO234	Internal	45	0.9	3
		University	45	2.1	
Pharmacology-I	CO235	Internal	40	0.9	3
		University	40	2.1	
Pharmacognosy & Phytochemistry-I	CO236	Internal	45	0.9	3
		University	45	2.1	
Physical Pharmaceutics-II	CO241	Internal	45	0.9	3
		University	45	2.1	
Pathophysiology and Clinical Biochemistry	CO242	Internal	40	0.9	3
		University	40	2.1	
Pharmaceutical Organic Chemistry-IV	CO243	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Analysis-II	CO244	Internal	45	0.9	3
		University	45	2.1	
Pharmacognosy & Phytochemistry-II	CO245	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Engineering	CO246	Internal	42	0.9	3
		University	42	2.1	
Pharmaceutics-II	CO30108	Internal	40	0.6	3
		University	40	2.4	
Pharmaceutical biotechnology	CO30208	Internal	40	0.6	3
		University	40	2.4	
Medicinal chemistry-I	CO30308	Internal	45	0.6	3
		University	45	2.4	
Pharmaceutical analysis-II	CO30408	Internal	45	0.6	3
		University	45	2.4	
Pharmacology II	CO30508	Internal	45	0.6	2.2
		University	45	1.6	
Pharmacognosy II	CO30608	Internal	45	0.6	3
		University	45	2.4	
Pharmaceutical business management	CO30708	Internal	42	0.4	3
		University	42	2.4	
Pharmaceutics-III	CO40108	Internal	45	0.6	3
		University	45	2.4	
Biopharmaceutics and Pharmacokinetics	CO40208	Internal	40	0.6	3
		University	40	2.4	
Medicinal chemistry-II	CO40308	Internal	45	0.6	3

		University	45	2.4	
Pharmaceutical analysis-III	CO40408	Internal	45	0.6	3
		University	45	2.4	
Pharmacology III	CO40508	Internal	45	0.6	3
		University	45	2.4	
Pharmacognosy III	CO40608	Internal	45	0.6	3
		University	45	2.4	
Pharmaceutical Jurisprudence	CO40708	Internal	45	0.6	3
		University	45	2.4	

**Table 3.2.2 b Consolidated: University + Internal Marks 2015-16**

Course Name	Code	Exam	Target	Attainment level	Total Attainment level in scale 3
Pharmaceutics- I	CO111	Internal	50	1.2	2.4
		University	50	1.2	
Modern dispensing practices	CO112	Internal	50	1.8	3
		University	50	1.2	
Pharmaceutical Inorganic Chemistry	CO113	Internal	50	1.2	1.8
		University	50	0.6	
Pharmaceutical Organic Chemistry-I	CO114	Internal	50	0.6	1.8
		University	50	1.2	
Human Anatomy & Physiology-I	CO115	Internal	50	1.2	2.4
		University	50	1.2	
Communication and soft skill development	CO116	Internal	50	0.6	1.8
		University	50	1.2	
Pharmaceutics- I	CO121	Internal	42	1.2	2.4
		University	42	1.2	
Dosage Form Design	CO122	Internal	50	1.2	3
		University	50	1.8	
Pharmaceutical Organic Chemistry-II	CO123	Internal	50	1.2	1.2
		University	50	-	
Human Anatomy & Physiology-II	CO124	Internal	50	1.2	3
		University	50	1.8	
Pharmacognosy	CO125	Internal	50	1.2	1.8
		University	50	0.6	
Pharmaceutical Analysis-I	CO126	Internal	50	1.2	2.4
		University	50	1.2	
Physical Pharmaceutics-I	CO231	Internal	50	0.9	3
		University	50	2.1	
Pharmaceutical Microbiology	CO232	Internal	50	0.9	3
		University	50	2.1	
Pharmaceutical Biochemistry	CO233	Internal	50	1.2	3
		University	50	1.8	
Pharmaceutical	CO234	Internal	50	0.7	1.6

Organic Chemistry-III		University	50	0.9	
Pharmacology-I	CO235	Internal	42	0.9	3
		University	42	2.1	
Pharmacognosy & Phytochemistry-I	CO236	Internal	50	0.6	2.7
		University	50	2.1	
Physical Pharmaceutics-II	CO241	Internal	50	0.9	3
		University	50	2.1	
Pathophysiology and Clinical Biochemistry	CO242	Internal	42	0.9	3
		University	42	2.1	
Pharmaceutical Organic Chemistry-IV	CO243	Internal	50	0.9	2.3
		University	50	1.4	
Pharmaceutical Analysis-II	CO244	Internal	50	0.9	3
		University	50	2.1	
Pharmacognosy & Phytochemistry-II	CO245	Internal	50	0.6	2.7
		University	50	2.1	
Pharmaceutical Engineering	CO246	Internal	44	0.9	2.3
		University	44	1.4	
Industrial Pharmacy-I	CO351	Internal	50	0.9	3
		University	50	2.1	
Pharmaceutical Analysis-III	CO352	Internal	50	0.9	3
		University	50	2.1	
Medicinal Chemistry-I	CO353	Internal	50	0.6	2
		University	50	1.4	
Pharmacology-II	CO354	Internal	50	0.9	3
		University	50	2.1	
Analytical Pharmacognosy & Extraction Technology	CO355	Internal	50	0.9	3
		University	50	2.1	
Pharmaceutical Business Management And Disaster Management	CO356	Internal	44	0.6	2.7
		University	44	2.1	
Active Pharmaceutical Ingredients Technology	CO357	Internal	43	0.9	3
		University	43	2.1	
Industrial Pharmacy-II	CO361	Internal	50	0.9	2.3
		University	50	1.4	
Pharmaceutical Analysis-IV	CO362	Internal	50	0.9	3
		University	50	2.1	
Medicinal Chemistry-II	CO363	Internal	50	0.6	2
		University	50	1.4	
Pharmacology-III	CO364	Internal	50	0.9	3
		University	50	2.1	
Natural Product Chemistry	CO365	Internal	50	0.9	3
		University	50	2.1	
Bioorganic Chemistry and Drug Design	CO366	Internal	40	0.9	3
		University	40	2.1	

Pharmaceutical Biotechnology	CO367	Internal	43	0.9	3
		University	43	2.1	
Pharmaceutics-III	CO40108	Internal	50	0.6	3
		University	50	2.4	
Biopharmaceutics and Pharmacokinetics	CO40208	Internal	43	0.6	3
		University	43	2.4	
Medicinal chemistry-II	CO40308	Internal	50	0.6	2.2
		University	50	1.6	
Pharmaceutical analysis-III	CO40408	Internal	50	0.6	3
		University	50	2.4	
Pharmacology III	CO40508	Internal	50	0.6	3
		University	50	2.4	
Pharmacognosy III	CO40608	Internal	50	0.6	3
		University	50	2.4	
Pharmaceutical Jurisprudence	CO40708	Internal	47	0.6	3
		University	47	2.4	

**Table 3.2.2 c Consolidated: University + Internal Marks 2016-17**

Course Name	Code	Exam	Target	Attainment level	Total Attainment level in scale 3
Pharmaceutics- I	CO111	Internal	55	1.2	3
		University	55	1.8	
Modern dispensing practices	CO112	Internal	55	1.2	2.4
		University	55	1.2	
Pharmaceutical Inorganic Chemistry	CO113	Internal	55	1.2	1.8
		University	55	0.6	
Pharmaceutical Organic Chemistry-I	CO114	Internal	55	0.8	1.4
		University	55	0.6	
Human Anatomy & Physiology-I	CO115	Internal	55	1.2	2.4
		University	55	1.2	
Communication and soft skill development	CO116	Internal	49	0.8	1.4
		University	49	0.6	
Pharmaceutics- I	CO121	Internal	44	1.2	3
		University	44	1.8	
Dosage Form Design	CO122	Internal	55	1.2	2.4
		University	55	1.2	
Pharmaceutical Organic Chemistry-II	CO123	Internal	55	1.2	1.2
		University	55	--	
Human Anatomy & Physiology-II	CO124	Internal	55	1.2	1.8
		University	55	0.6	
Pharmacognosy	CO125	Internal	55	0.8	2
		University	55	1.2	
Pharmaceutical Analysis-I	CO126	Internal	55	1.2	2.4
		University	55	1.2	

Physical Pharmaceutics-I	CO231	Internal	55	1.2	3
		University	55	1.8	
Pharmaceutical Microbiology	CO232	Internal	55	1.2	3
		University	55	1.8	
Pharmaceutical Biochemistry	CO233	Internal	55	1.2	3
		University	55	1.8	
Pharmaceutical Organic Chemistry-III	CO234	Internal	55	1.2	1.8
		University	55	0.6	
Pharmacology-I	CO235	Internal	44	1.2	1.8
		University	44	0.6	
Pharmacognosy & Phytochemistry-I	CO236	Internal	55	1.2	2.4
		University	55	1.2	
Physical Pharmaceutics-II	CO241	Internal	55	1.2	3
		University	55	1.8	
Pathophysiology and Clinical Biochemistry	CO242	Internal	44	1.2	3
		University	44	1.8	
Pharmaceutical Organic Chemistry-IV	CO243	Internal	55	1.2	1.2
		University	55	--	
Pharmaceutical Analysis-II	CO244	Internal	55	1.2	2.4
		University	55	1.2	
Pharmacognosy & Phytochemistry-II	CO245	Internal	55	1.2	2.4
		University	55	1.2	
Pharmaceutical Engineering	CO246	Internal	45	1.2	3
		University	45	1.8	
Industrial Pharmacy-I	CO351	Internal	55	0.9	3
		University	55	2.1	
Pharmaceutical Analysis-III	CO352	Internal	55	0.9	3
		University	55	2.1	
Medicinal Chemistry-I	CO353	Internal	55	0.6	2
		University	55	1.4	
Pharmacology-II	CO354	Internal	55	0.4	2.2
		University	55	1.8	
Analytical Pharmacognosy & Extraction Technology	CO355	Internal	55	0.9	3
		University	55	2.1	
Pharmaceutical Business management & Disaster management	CO356	Internal	46	0.9	2.3
		University	46	1.4	
Active Pharmaceutical Ingredients Technology	CO357	Internal	45	0.9	3
		University	45	2.1	
Industrial Pharmacy-II	CO361	Internal	55	0.9	3
		University	55	2.1	
Pharmaceutical Analysis-IV	CO362	Internal	55	0.9	1.6
		University	55	0.7	
Medicinal Chemistry-II	CO363	Internal	55	0.9	0.9
		University	55	--	
Pharmacology-III	CO364	Internal	55	0.4	2.2
		University	55	1.8	



Natural Product Chemistry	CO365	Internal	55	0.9	3
		University	55	2.1	
Bioorganic Chemistry and Drug Design	CO366	Internal	43	0.9	3
		University	43	2.1	
Pharmaceutical Biotechnology	CO367	Internal	45	1.2	1.8
		University	45	0.6	
Sterile Products	CO471	Internal	55	0.3	2.4
		University	55	2.1	
Pharmaceutical Analysis-V	CO472	Internal	43	0.9	1.6
		University	43	0.7	
Medicinal chemistry-III	CO473	Internal	55	0.9	2.3
		University	55	1.4	
Pharmacology-IV	CO474	Internal	55	0.9	2.3
		University	55	1.4	
Natural Drug Technology	CO475	Internal	40	0.9	3
		University	40	2.1	
Bio-pharmaceutics & Pharmacokinetics	CO476	Internal	45	0.9	3
		University	45	2.1	
Pharmaceutical Jurisprudence	CO477	Internal	49	0.9	2.3
Advanced Drug Delivery System	CO481	Internal	55	0.9	3
		University	55	2.1	
Cosmetic science	CO482	Internal	43	0.9	3
		University	43	2.1	
Pharmaceutical Analysis-VI	CO483	Internal	55	0.9	0.9
		University	55	--	
Medicinal chemistry-IV	CO484	Internal	55	0.3	1
		University	55	0.7	
Pharmacology-V (Including Biostatistics)	CO485	Internal	55	0.9	3
		University	55	2.1	
Natural Products: Commerce, Industry & Regulations	CO486	Internal	40	0.9	3
		University	40	2.1	
Quality Assurance Techniques	CO487	Internal	45	0.9	2.3
		University	45	1.4	

The following are the conclusions drawn from the analyses of results (combined results of Internal and University examinations).

- In the academic year 2014-15, more than 80% of the courses have attained targeted learning outcome.
- In the academic year 2015-16, more than 70% of the courses have achieved the set target in learning outcome.
- In the academic year 2016-17, the 70% of courses have attained the aggregate of learning outcome.

In the academic year 2014-15 the target of attainment set was 45%, whereas for 2015-16 it was increased by 5%, to 50%, and finally, in academic year 2016-17 the target was set as 55%.

In the conclusion, it was observed that increasing the target value, decreases the % aggregate of learning outcome. The observed set-back in attaining the set target was probably due to constant change in the syllabi of the courses at University Level.

### 3.3. Attainment of Program Outcomes (40)

#### 3.3.1. Describe assessment tools and processes used for assessing the attainment of each PO: (10)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each the Program Outcome is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes are attained and document the attainment levels).

The assessment tools and processes to gather data was mentioned in 3.2.2a, 3.2.2b, and 3.2.2c. The course outcomes are mapped for each program outcome. The attainment of course outcomes achieved in the years 2014-15, 2015-2016 and 2016-17 are translated into program outcomes based on the CO-PO Matrixes and course-PO Matrixes.

**Following are the assessments.**

#### Assessment Tools

- Several tools are described for assessing course outcomes. The program outcomes are based on the course outcomes. Thus the tools remain the same for assessing the program outcomes.
- **Direct Attainment Tools**

The various direct assessment tools for assessing the students and the PO attained are as follows

Component	Components of Evaluation	Nature of exam
Internal examinations		
Theory	MCQ's Sessional exam Assignments	Multiple choice questions (Total 10 ) Short questions (10 Marks), short notes (10Marks) and long question questions (10 Marks)
Practical	Daily evaluation	Planning, analysis of lab skills, finishing the experiment
	Practical examination	Synopsis, spotting and viva-voce, major

		experiment and minor experiment
	Laboratory Record	As per practical aim the details of practical, principle, procedure, results and observations, synopsis etc
University examinations		
Theory	University semester end exams	Short questions (15 Marks), short notes (10Marks) and long question questions (10 Marks) for section I and section II
Practicals	University semester end exams	Synopsis, spotting and viva-voce, major experiment and minor experiment

**Assessment process:**

The assessment tools are direct and indirect methods for assessing the attainment of POs.

**Direct methods:** The sessional examinations and the continuous assessment, wherein the faculty focus on the POs. The question papers include short answers, short essay and long essay type questions. In addition, MCQs and class test are conducted. Assignments are given for some extension of syllabus. In case of laboratory examination, synopsis, major experiment, minor experiment, viva voce, record etc., are the components. It is required that questions has to cover 60% of 'fundamentals to know', 30% 'better to know' and 10% are 'nice to know'. Therefore, special attempts are made to attain these objectives.

**Indirect methods:** Surveys are conducted from three levels: Alumni, Parents and faculty survey.

**PO evaluation**

The POs are obtained from course outcomes, which composed a number of tools such as end examination practicals, MCQs, class test, assignments, etc. Each one has uniquely suited to achieve POs. The evaluation is spread throughout the program, examinations, alumni feedback, and faculty survey on students, GPAT scores and experimental observations.

**3.3.2. Provide results of evaluation of each PO****(30)**

*Program shall set Program Outcome attainment levels for all POs.*

*(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course-PO matrix as indicated).*

**Academic year 2014-2015**

Course Outcomes	Program outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO111	3	1.66	2	1.5	0.66	2.16	1.5	1.5	1.83	0.16	2.16
CO112	2.83	1.33	2	1.5	0.66	2.16	1.5	1.5	1.83	0.16	2.16
CO113	3	1.5	0.8	1.16	1	1.5	1	1.16	1	1	3
CO114	3	1	0.6	1	0.6	1.5	1	0.6	1	1	2.3
CO115	3	1.16	1	2.66	0.83	0.83	1	1.33	1	0.83	2.33
CO116	2	2	2	2	-	2	-	3	2	-	2
CO231	3	1.6	1.8	1.3	0.6	2	2	3	1	0.1	3
CO232	3	1	0.5	0.8	1	2.3	1	1	1	1	2.5
CO233	2.71	0.71	1.3	3	2	1.6	2.6	2.9	0.71	2.14	2.71
CO234	3	1.5	1.3	0.6	1	1	1	1	1	1	1.3
CO235	3	1	1	1	1	1.66	1	3	1.66	1.1	3
CO236	3	0.17	1.17	1.17	-	1.33	-	-	2	0.5	2.33
CO237	3	1	1	1	1	1	1	1	-	1	1
CO121	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO122	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.16	2.66
CO123	3	1	1	1	0.5	1	0.5	1	1	1	2
CO124	3	1.16	0.66	1.16	1.16	1	0.66	0.83	0.83	0.83	2
CO125	3	2	2	2.5	1.1	2.1	2	2	2	3	2.5
CO126	3	2	1.8	1	2	2.17	2	1.6	2	1.67	2
CO241	3	1.8	1.6	2.1	1	1	1	1	1	-	3
CO242	3	2	1.3	1.16	-	1.83	-	1.83	1.83	0.33	3
CO243	3	1.5	1.3	1	1	1	1	1	0.6	1	1.8
CO244	3	1.5	1.66	1	1.33	1.33	3	2	1.33	1.5	1.66
CO245	3	0.33	1	1.5	-	1.67	-	-	1.33	-	2.5

CO246	1.83	1	1.33	1	1	1	1	1	1	1	2.5
CO30108	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO30208	3	2.5	2.6	2.5	2.5	2	2	2	1	2	2.6
CO30308	3	1.5	1.66	1	1.33	1.33	2	2	1.33	1.5	1.66
CO30408	3	1.5	3	1	2	2	2	2.33	2	2	2
CO30508	3	1.33	1.33	1	1	1	1.5	1	3	1	3
CO30608	3	1.67	2.17	2	1.83	2	2	2	3	1.83	2.83
CO30708	2.0	2.16	2.0	1.16	2.66	2.0	2.66	2.16	1.33	1.66	1.83
CO40108	3	2.8	2.5	1.3	1.1	2.3	2.3	2.1	2	2	2.6
CO40208	3	1.6	1.8	1.1	1.1	1.8	2.5	1.8	2	1	2.3
CO40308	3	1	1	1	1	1.3	1	1	1	1	2
CO40408	3	1.5	1.66	1	1.33	1.33	2	2	1.33	1.5	1.66
CO40508	3	1.57	1.71	1.14	1.28	1.57	1.71	1.14	1.28	1.28	3
CO40608	3	1.67	2.17	2	1.83	2	2	2	3	1.83	2.83
CO40708	3	1.3	0.83	1	1.1	2	3	3	3	1	2.6
B. Pharm, Direct attainment (3 Max)	2.84	1.46	1.50	1.36	1.23	1.66	1.62	1.69	1.50	1.13	2.34
B. Pharm Direct attainment (80%)	2.27	1.16	1.20	1.08	0.98	1.32	1.29	1.35	1.20	0.90	1.87
B. Pharm, Indirect attainment (20%)	0.58	0.40	0.32	0.31	0.36	0.40	0.39	0.40	0.34	0.34	0.46
<b>Total attainment</b>	<b>2.85</b>	<b>1.56</b>	<b>1.52</b>	<b>1.39</b>	<b>1.34</b>	<b>1.72</b>	<b>1.68</b>	<b>1.75</b>	<b>1.54</b>	<b>1.24</b>	<b>2.33</b>

## Academic year 2015-2016

Course Outcomes	Program outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO111	3	1.66	2	1.5	0.66	2.16	1.5	1.5	1.83	0.16	2.16
CO112	3	1.5	2	1.66	0.66	2.33	2	1.66	1.83	0.16	2.33
CO113	3	1.5	1.33	1.16	1.66	1.5	1	1.1	1	1	1.6
CO114	3	1	0.6	1	0.6	1.5	1	0.6	1	1	2.3
CO115	3	1.16	1	2.66	0.83	0.83	1	1.33	1	0.83	2.33
CO116	2	2	2	2	-	2	-	3	2	-	2
CO231	3	1.6	1.8	1.3	0.6	2	2	3	1	0.1	3
CO232	3	1	0.5	0.8	1	2.3	1	1	1	1	2.5
CO233	2.71	0.71	1.3	3	2	1.6	2.6	2.9	0.71	2.14	2.71
CO234	3	1.5	1.33	1.33	1	1	1	1	1	1	1.3
CO235	3	1	1	1.5	1	1.83	1.5	3	2	0.66	3
CO236	3	1.5	2	2	2	2.17	1.67	2	3	2.33	3
CO237	3	1	1	1	-	1	-	1	1	3	3
CO121	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO122	2.83	1.83	1.33	1.5	-	2.33	2	0.33	1.16	0.16	2.66
CO123	3	1	1	1	0.5	1	0.5	1	1	1	2
CO124	3	1.16	0.66	1.16	1.16	1	0.66	0.83	0.83	0.83	2
CO125	3	2	2	2.5	0.5	2.1	2	2	2	3	2.5
CO126	3	2	1.7	1.5	2	1.83	2.33	1.67	1.83	1.67	1.5
CO241	3	1.8	1.6	2.1	1	1	1	1	1	-	3
CO242	3	1.33	2	1.33	1.83	1.83	1.5	1.83	1.83	1.0	3
CO243	3	1.6	1	1.3	1	1	0.1	1	1	1	1.6
CO244	3	1.5	1.66	1	1.33	1.33	3	2	1.33	1.5	1.66
CO245	3	2.17	2.33	3	2.17	2.67	1.83	2.67	2.83	2.17	3
CO246	2.66	1	1.33	1	1	2	2	1	1	1	3
CO351	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO352	3	1.8	2	2	2	2.33	2.33	1.83	2.33	2.33	2
CO353	1.8	2	1.5	3	-	2	3	2	2	2	2

CO354	3	1.5	1.7	2	1.33	2	1.3	1	1	1	2.7
CO355	3	1	1	1	-	1	1	0.8	1	1	2
CO356	1.83	2.33	1.83	1.33	2.5	1.5	2.0	1.83	1.16	1.66	2.0
CO357	3	2	2.3	1.5	2	3	2.6	2	3	3	2.5
CO361	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO362	3	1	3	2.2	2	1.83	1.67	2.33	2.33	1.83	1.83
CO363	2	2.8	3	3	-	3	3	1.5	0.6	1.3	1.5
CO364	3	1.66	1	1.7	1	1	1.33	2	1.5	1	2.6
CO365	3	2	2.8	3	0.6	1.8	1.8	1.8	2	2	2
CO366	3	1.16	1	1	1	1	1	1	1	1	1.83
CO367	3	2.6	2.6	2.5	2.5	2	2	2	1	2	2.6
CO40108	3	2.8	2.6	1.3	1.1	2.3	2.3	2.1	2	2	2.8
CO40208	3	1.8	1.6	1.6	1.6	2	2.1	2.3	2	1.3	2.8
CO40308	3	1	1	1	1	1.3	1	1	1	1	2
CO40408	3	1.5	1.66	1	1.33	1.33	2	2	1.33	1.5	1.66
CO40508	3	1.57	1.71	1.14	1.28	1.57	1.71	1.14	1.28	1.28	2
CO40608	3	2.33	2.5	2.17	2	2.33	2.67	2	3	2.17	2.83
CO40708	3	0.6	3	1.3	0.83	1	1.1	2	3	1	2.6
B. Pharm, Direct attainment (3 Max)	2.83	1.58	1.65	1.65	1.31	1.77	1.67	1.65	1.51	1.31	2.33
B. Pharm, Direct attainment (80%)	2.26	1.26	1.32	1.32	1.04	1.41	1.33	1.32	1.20	1.04	1.86
B. Pharm, Indirect attainment (20%)	0.59	0.45	0.46	0.45	0.44	0.47	0.5	0.5	0.44	0.48	0.51
<b>Total attainment</b>	<b>2.85</b>	<b>1.71</b>	<b>1.78</b>	<b>1.77</b>	<b>1.48</b>	<b>1.88</b>	<b>1.83</b>	<b>1.82</b>	<b>1.64</b>	<b>1.52</b>	<b>2.37</b>

## Academic year 2016-2017

Course Outcomes	Program outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO111	3	1.66	2	1.5	0.66	2.16	1.5	1.5	1.83	0.16	2.16
CO112	3	1.66	2	2	0.66	3	3	1.66	2	0.16	3
CO113	3	1.5	1.5	1.16	01	1.5	1	1.1	1	1	1.6
CO114	3	1	0.6	1	0.6	1.5	1	0.6	1	1	2.3
CO115	3	1.16	1	2.66	0.83	0.83	1	1.33	1	0.83	2.33
CO116	2	2	2	2	-	2	-	3	2	-	2
CO231	3	1.6	1.8	1.3	0.6	2	2	3	1	0.1	3
CO232	3	1	0.5	0.8	1	2.3	1	1	1	1	2.5
CO233	2.71	1.42	2	3	2	1.6	2.6	2.9	0.71	2.14	2.71
CO234	3	1.5	1.33	1.33	1	1	1	1	1	1	1.3
CO235	3	1	1	1.83	1.33	1.83	1.5	3	2	0.83	3
CO236	3	1.5	2	2	2	2.17	1.67	2	3	2.33	3
CO237	3	1	1	1	1	1	1	1	1	3	3
CO351	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO352	3	1.4	1.6	1.67	1.8	1.33	1.5	2.33	2.33	1.67	2.17
CO353	1.8	2	1.5	3	-	2	3	2	2	2	2
CO354	3	1.5	1.7	2	1.33	2	1.3	1	1	1	2.7
CO355	3	1.3	1.3	1.3	1.17	1.7	1.7	0.8	-	1	2
CO356	1.83	2.33	1.83	1.33	2.5	1.5	2.0	1.83	1.16	1.66	2.0
CO357	3	2	2.3	2	2	3	2.6	2	3	3	2.6

CO121	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO122	2.83	2.16	1.33	1.5	-	2.83	2.66	0.33	1.16	0.16	3
CO123	3	1	1	1	0.5	1	0.5	1	1	1	2
CO124	3	1.16	0.66	1.16	1.16	1	0.66	0.83	0.83	0.83	2
CO125	3	2	2	2.5	0.5	2.1	2	2	2	3	2.5
CO126	3	2	2	2	2	1	3	2	3	2	2
CO241	3	1.8	1.6	2.1	1	1	1	1	1	-	3
CO242	3	1	2	2	1.5	2	1.5	2	1.83	1.0	3



CO243	3	1.5	3	1.5	1	1.	1	1	1	1	0.1
CO244	3	1.5	1.66	1	1.33	1.33	3	2	1.33	1.5	1.66
CO245	3	2.17	2.33	3	2.17	2.67	1.83	2.67	2.83	2.17	3
CO246	3	1	1.33	1	1	3	3	1	2	1	3
CO361	2.16	1.66	1.33	1.33	-	2.33	1.5	-	1	0.33	2.66
CO362	3	1	3	1.67	2	1.5	1.83	2.33	2.33	2	2.33
CO363	2	2.8	3	3	-	3	3	1.5	0.6	1.3	1.5
CO364	3	1.66	1	1.7	1	1	1.33	2	1.5	1	2.6
CO365	3	2	2.8	3	0.6	1.8	1.8	1.8	2	2	2
CO366	3	1.16	1	1	1	1	1	1	1	1	1.83
CO367	3	2.5	2.6	2.5	2.5	2	2	2	1	2	2.6
CO471	3	2.6	3	-	2	2	2	2	2	2	2.5
CO472	3	1.66	1.66	1.16	1.33	1.66	1.33	1.83	1.5	1.33	1.66
CO473	3	1		1	1	1	1	1	1	1	2
CO474	3	1.66	1.5	1.33	1.5	1.5	1.5	1.33	1	1.5	3
CO475	3	2.33	2.5	2.17	2	2.33	2.67	2	3	2.17	2.83
CO476	3	1.8	1.6	1.6	1.6	2	2.1	2.3	2	1.3	2.8
CO477	3	0.6	3	1.3	0.83	1	1.1	2	3	1	2.6
CO481	3	2	2.6	2.5	2.6	1.3	1.3	2.3	2.3	2.1	2.1
CO482	3	1.17	1.17	1	-	1	1.17	1	1	0.8	2
CO483	2.5	2	2.3	1.2	-	1	3	2	1.8	3	3
CO484	3	1	1	1	1	1	1	1	1	1	2
CO485	3	1.5	1.5	1.5	1.66	1.5	1.33	1	1.33	1.5	3
CO486	3	2	3	1.67	2.5	2.5	2.83	2.67	3	1.17	3
CO487	3	1	1	1	1	2	1	1	3	1	3
B. Pharm, Direct attainment (3 Max)	2.85	1.58	1.75	1.67	1.35	1.74	1.71	1.65	1.62	1.34	2.39
B. Pharm, Direct attainment (80%)	2.28	1.26	1.4	1.33	1.08	1.39	1.36	1.32	1.29	1.07	1.91
B. Pharm, Indirect attainment (20%)	0.54	0.48	0.54	0.45	0.57	0.51	0.51	0.53	0.57	0.48	0.48
<b>Total attainment</b>	<b>2.87</b>	<b>1.74</b>	<b>1.94</b>	<b>1.78</b>	<b>1.65</b>	<b>1.90</b>	<b>1.87</b>	<b>1.85</b>	<b>1.86</b>	<b>1.55</b>	<b>2.39</b>

<b>Course Outcomes and Program Outcomes</b>		<b>100 Marks</b>	
<b>Sr. No.</b>	<b>Criteria</b>	<b>Marks</b>	
		<b>Prescribed</b>	<b>Institute</b>
3	<b>Course Outcomes (COs) and Program Outcomes (POs)</b>		
3.1	Establish the correlation between the courses and the Program Outcomes		
3.1.1	Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses)	5	5
3.1.2	CO-PO matrices of courses selected in 3.1.1 (four matrices to be mentioned; one per semester from 1st to 8th semester; at least one per year)	5	5
3.1.3	Course-PO matrix of courses for all four years of study	10	10
3.2	<b>Attainment of Course Outcomes</b>		
3.2.1	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based	10	10
3.2.2	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	30	30
3.3	<b>Attainment of Program Outcomes</b>		
3.3.1	Describe assessment tools and processes used for assessing the attainment of each PO	10	10
3.3.2	Provide results of evaluation of each PO	30	30
	<b>Total</b>	100	100
	<b>Percentage</b>		<b>100</b>

**CRITERION 4**  
**Student's Performance**

<b>CRITERION 4</b>	<b>Student's Performance</b>	<b>180</b>
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**4. Student's Performance (180)**

<b>Item</b>	<b>CAY (17-18)</b>	<b>CAYm1 (16-17)</b>	<b>CAYm2 (15-16)</b>	<b>CAYm3 (14-15)</b>	<b>CAYm4 (13-14)</b>	<b>CAYm5 (12-13)</b>	<b>CAYm6 (11-12)</b>
Sanctioned intake of the program (N)	60	60	60	60	60	60	60
Total number of students admitted in first year(N1)	58	59	60	59	60	58	56
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	06	06	12	12	12	12	12
Total number of students admitted in the Program (N1 + N2)	64	65	72	71	72	70	68

**4.1. Enrolment Ratio (20)**

Enrolment Ratio=  $N1/N = \text{Avg. } N1/\text{Avg. } N = (236/4)/60 = 59/60 = 98.89$

<b>Item (Students enrolled at the First Year Level on average basis during the period of assessment)</b>	<b>Marks</b>
>=90% students enrolled	<b>20</b>
>=80% students enrolled	18
>=70% students enrolled	16
>=60% students enrolled	12
>=50% students enrolled	08
<50% students enrolled	0

**4.2. Success Rate in the stipulated period of the program**

**(50)**

Year of entry	Number of students admitted in 1 <sup>st</sup> year + admitted via lateral entry in 2 <sup>nd</sup> year (N1 + N2)	Number of students who have successfully graduated without backlogs in any year of study (Without backlog means no compartment/failure in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY (2017-18)	64				
CAY m1 (2016-17)	65	34			
CAYm2 (2015-16)	72	37	35		
CAYm3 (2014-15)	71	41	48	48	
CAYm4(LYG)(13-14)	72	28	33	30	30
CAYm5(LYGm1) (12-13)	70	31	37	26	26
CAYm6(LYGm2) (11-12)	68	40	49	46	46

Year of entry	Number of students admitted in 1 <sup>st</sup> year + admitted via lateral entry in 2 <sup>nd</sup> year (N1 + N2)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)			
		I Year	II Year	III Year	IV Year
CAY (2017-18)	64				
CAY m1 (2016-17)	65	21			
CAYm2 (2015-16)	72	11	16		
CAYm3 (2014-15)	71	15	19	19	
CAYm4(LYG)(13-14)	72	27	22	27	26
CAYm5(LYGm1) (12-13)	70	19	21	31	24
CAYm6(LYGm2) (11-12)	68	10	10	12	12

**4.2.1. Success rate without backlogs in any year of study (30)**

$SI = \frac{\text{Number of students who graduated from the program without backlog}}{\{(\text{Number of students admitted in the first year of that batch}) + (\text{lateral entry students admitted in second year of study})\}}$

$\text{Average SI} = \text{Mean of success index (SI) for past three batches}$

$\text{Success rate without backlogs in any year of study} = 30 \times \text{Average SI}$

Item	LYG (2013-14)	LYGm1 (2012-13)	LYGm2 (2011-12)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry (N1+N2)	72	70	68
Number of students who have graduated without backlogs in the stipulated period	30	26	46
<b>Success index (SI)</b>	<b>0.42</b>	<b>0.37</b>	<b>0.68</b>
<b>Average SI</b>	<b>0.49</b>		
<b>Success rate without backlogs in any year of study (30 × Avg. SI)</b>	<b>14.70</b>		

*Note: If 100% students clear without any backlog then also total marks scored will be 50 as both 4.2.1 & 4.2.2 will be applicable simultaneously.*

**4.2.2. Success rate with backlog in stipulated period of study (20)**

$SI = \frac{\text{Number of students who graduated from the program in the stipulated period of course duration}}{\{(\text{Number of students admitted in the first year of that batch}) + (\text{lateral entry students admitted in second year of study})\}}$

$\text{Average SI} = \text{mean of success index (SI) for past three batches}$

$\text{Success rate} = 20 \times \text{Average SI}$

Item	LYG (2013-14)	LYGm1 (2012-13)	LYGm2 (2011-12)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry (N1+N2)	72	70	68
Number of students who have graduated without backlogs in the stipulated period	26	24	12
<b>Success index (SI)</b>	<b>0.36</b>	<b>0.34</b>	<b>0.18</b>
<b>Average SI</b>	<b>0.29</b>		
<b>Success rate with backlogs in any year of study (20 × Avg. SI)</b>	<b>5.80</b>		

**4.3. Academic Performance in Final Year (10)**

Academic Performance = Average API

*Academic Performance Index(API) = ((Mean of Final Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Final Year/10)) x (successful students/number of students appeared in the examination)*

*Successful students are those who passed in all the final year courses*

Academic Performance	CAYm1 16-17	CAYm2 15-16	CAYm3 14-15
Mean of CGPA or Mean Percentage of all successful students (X)	6.08	5.98	6.07
Total no. of successful students (Y)	56	50	58
Total no. of students appeared in the examination (Z)	57	57	58
<b>API= X × Y/Z</b>	<b>5.97</b>	<b>5.25</b>	<b>6.07</b>
<b>Academic Performance=Average API =(AP1 + AP2 + AP3)/3</b>	<b>5.76</b>		

**4.4. Academic Performance in Third Year (10)**

Academic Performance = Average API

*Academic Performance Index= ((Mean of 3<sup>rd</sup> Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) × (successful students/number of students appeared in the examination)*

*Successful students are those who are permitted to proceed to the final year*

Academic Performance	CAYm1 16-17	CAYm2 15-16	CAYm3 14-15
Mean of CGPA or Mean Percentage of all successful students (X)	6.05	5.90	5.37
Total no. of successful students (Y)	67	57	57
Total no. of students appeared in the examination (Z)	67	55	58
<b>API= X × Y/Z</b>	<b>6.05</b>	<b>6.11</b>	<b>5.28</b>
<b>Average API = (AP1 + AP2 + AP3)/3</b>	<b>5.81</b>		

**4.5. Academic Performance in Second Year****(10)**

Academic Performance = Average API

*Academic Performance Index=(API)= ((Mean of 2<sup>nd</sup> Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (successful students/number of students appeared in the examination)*  
*Successful students are those who are permitted to proceed to the third year*

<b>Academic Performance</b>	<b>CAYm1 16-17</b>	<b>CAYm2 15-16</b>	<b>CAYm3 14-15</b>
Mean of CGPA or Mean Percentage of all successful students (X)	6.47	5.98	6.06
Total no. of successful students (Y)	51	67	55
Total no. of students appeared in the examination (Z)	65	70	63
<b>API = X × (Y/Z)</b>	<b>5.08</b>	<b>5.72</b>	<b>5.29</b>
<b>Academic Performance = Average API = (AP1 + AP2 + AP3)/3</b>	<b>5.36</b>		

**4.6. Academic Performance in First Year****(20)**

Academic performance=2.0 × Average API

*Academic Performance Index (API) =((Mean of 1<sup>st</sup> Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in first Year/ 10)) x (successful students/number of students appeared in the examination)*

*Successful students are those who are permitted to proceed to the second year*

<b>Academic Performance</b>	<b>CAYm1 16-17</b>	<b>CAYm2 15-16</b>	<b>CAYm3 14-15</b>
Mean of CGPA or Mean Percentage of all successful students (X)	6.41	6.33	5.75
Total no. of successful students (Y)	55	48	56
Total no. of students appeared in the examination (Z)	59	60	59
API = X × (Y/Z)	5.98	5.06	5.46
Average API = (AP1 + AP2 + AP3)/3	5.50		
Academic Performance=2.0 * Average API	11.00		



**4.7. Placement and Higher Studies**

**(40)**

Assessment Points =  $40 \times (X + Y)/N$

Item	LYG (2016-17)	LYGm1 (2015-16)	LYGm2 (2014-15)
Total No. of Final Year Students (N)	55	53	58
Number of students placed in Industries/ Hospitals/ Government sector through on/off campus recruitment or opted for Entrepreneurship(x)	21	25	18
No. of students admitted to higher studies with valid scores in various qualifying exams(y)	28	22	39
X + Y	49	47	57
Placement Index : $(X + Y)/N$	0.89	0.89	0.98
<b>T = Average of <math>(X + Y)/N</math></b>	<b>0.92</b>		
<b>Assessment = 40 X T</b>	<b>36.8</b>		

**4.8. Professional Activities**

**(20)**

**4.8.1. Professional societies / chapters and organizing pharmacy events (5)** (Provide the relevant details)

**Academic Year: 2016-17**

Sr. No.	Date	Nature of Activity	Name of Activity	Venue	Professional Society/Body	No. of student participated
1.	09/01/2017	Cultural	Singing	Dadasaheb Gaikwad Sabhagruh, Nasik	IPA	03

## Academic Year: 2015-16

Sr. No.	Date	Nature of Activity	Name of Activity	Venue	Professional Society /Body	No. of student participated
1.	18/01/2016	Cultural	Sketching, Drawing	Matoshri College of Pharmacy, Eklahare, Nashik	IPA	02
2.	18/01/2018	Sports	Cricket (ladies)	Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik-422213	IPA	15
3.		Cultural	Pharma Fancy Dress Competition	Asian Institute of Pharmacy, Nashik	IPA	01
4.		Sports	Carom (1 pair and single)	Shree Mahavir Institute of Pharmacy, Nashik	IPA	04
5.		Sports	Chess	Shree Mahavir Institute of Pharmacy, Nashik	IPA	01
6.	19/01/2016	Competition	Quiz (1 pair)	Bramha Valley College of Pharmacy, Anjaneri, Nashik	IPA	04
7.		Sports	Table Tennis	A.I.T. Institute of Pharmacy, Malegaon	IPA	03
8.		Competition	Poster Presentation	MGV's SPH College of Pharmacy, Malegaon Camp, Malegaon (Diploma)	IPA	07
9.		Competition	Group Discussion	SMBT College of Pharmacy, Dhamangaon, Nashik	IPA	06
10.		Competition	Scientific oral Presentation	SMBT Institute of Diploma Pharmacy, Dhamangaon, Nashik	IPA	05
11.		Competition	Problem Solving	NDMVP's College of Pharmacy, Gangapur Road, Nashik	IPA	02
12.		Sports	Volley Ball	GES Sir Dr. M.S.G. COPER, Prin. T.A. Kulkarni Vidyanageri, Nashik	IPA	11
13.	21/01/2016	Cultural	Dance	MET Institute of Pharmacy, Adgaon, Nashik	IPA	08
14.		Debate	Debate, Hospital Visit & Health Check up	NDMVP's Institute of Pharmacy, Adgaon, Nashik	IPA	02
15.		Sports	Cricket (Gents)	Malegaon Camp, Malegaon (GRAMIN ZONE: Malegaon, Chandwad, Kalwan)	IPA	15

**Academic Year: 2014-15**

Sr. No.	Date	Nature of Activity	Activity	Venue	Professional Society/Body	No. of student participated
1.	27/12/2014	Scientific Writing	Essay	GES's Sir Dr. M. S. G. college of pharmacy and research, Nasik	IPA	03
2.	27/12/2014	Sports	Snooker	LJDP College of Pharmacy, Kalwan	IPA	05
3.	27/12/2014	Sports	Swimming	SGSS College of Pharmacy, Kalwan	IPA	07
4.	27/12/2014	Cultural	Dance	LJDP College of Pharmacy, Kalwan	IPA	12
5.	27/12/2014	Sports	Carom	Shri mahavir Institute of Pharmacy, Mhasrul, Nasik	IPA	02
6.	27/12/2014	Sports	Chess	Shri mahavir Institute of Pharmacy, Mhasrul, Nasik	IPA	01
7.	29/12/2014	Competition	Quiz	AIT Institute of Pharmacy, Malegaon	IPA	02
8.	27/12/2014	Competition	Poster Presentation	MGV's Pharmacy College, Nasik	IPA	06
9.	30/12/2014	Sports	Kabaddi	Royal College of Pharmaceutical Education, Malegaon	IPA	16
10.	30/12/2014	Debate	Debate	Asian Institute of Pharmacy, Nasik	IPA	02
11.	30/12/2014	Arts	Scientific Rangoli	MGV's SPH College of Pharmacy, Malegaon	IPA	04
12.	31/12/2014	Talk	Elocution	SMBT College of Pharmacy, Dhamngaon, Nasik	IPA	02
13.	31/12/2014	Talk	Scientific Oral Presentation	SMBT College of Pharmacy, Dhamngaon, Nasik	IPA	03
14.	31/12/2014	Cultural	Singing	Sandip Institute of Pharmaceutical Sciences, Nasik	IPA	03
15.	31/12/2014	Sports	Volleyball	KBHSS Institute of Pharmacy, Malegaon	IPA	12
16.	01/01/2015	Debate	Group Discussion	SNJB's SSDJ College of Pharmacy, Chandwad	IPA	05
17.	01/01/2015	Arts	Pharmaceutical Model Making	SNJB's SSDJ College of Pharmacy, Chandwad	IPA	07

18.	01/01/2015	Sports	Table Tennis (Ladies And Staff)	SNJB's SSDJ College of Pharmacy, Chandwad	IPA	04
19.	01/01/2015	Arts	Scientific Innovative Advertisement	SNJB's SDFL Pharmacy College, Chandwad	IPA	03
20.	01/01/2015	Cultural	Pharma Fancy Dress Competition	Brahma Valley College of Pharmacy, Nasik	IPA	03
21.	01/01/2015	Sports	Table Tennis (Gents)	AIT Institute of Pharmacy, Malegaon	IPA	04
22.	02/01/2015	Sports	Cricket (Gents)	RG Sapkal College of Pharmacy, Nasik	IPA	16
23.	02/01/2015	Sports	Cricket (Ladies)	Sandip Institute of Pharmaceutical Sciences, Nasik	IPA	13
24.	02/01/2015	Arts	Sketching And Drawing	Matoshri College of Pharmacy, Eklahare, Nasik	IPA	02
25.	03/01/2015	Cultural	Cultural Programme	Dadasaheb Gaikwad Sabhagruh, Nasik	IPA	05

#### 4.8.2. Publication of technical magazines, newsletters, etc.

(5)

(List the publications mentioned along with the names of the editors, publishers, etc.)

- We have formulated News bulletin committee in the college with the Principal of the college as a chairman of the said committee.
- The composition of the News bulletin committee is as follows:

Sr. No.	Name of the Faculty	Designation
1.	Dr. C.D. Upasani	Chairman
2.	Dr. A.S. Mundada	Member
3.	Mrs. V.R. Daga	Member
4.	Dr. H.H. Gangurde	Member
5.	Mr. M.S. Mahajan	Member
6.	Dr. V.S. Borkar	Secretary

We annually publish a News Bulletin wherein the achievements of the staff and students are being showcased.

It encompasses the student's participation in various curricular and co-curricular activities.

It is published by college with Respected Principal as the publisher.

All affairs related to the contents of the bulletin are handled by a committee of the college.

**4.8.3. Participation in inter-institute events by students of the program of study (10)**

*(Provide a table indicating those publications, which received awards in the Events / conferences organized by other institutes)*

**Academic Year: 2016-17**

Sr. No.	Name of Student	Event	Activity	Organized by	Award
1.	Miss. Himani Rana	Avishkar	Poster	S.N.J.B.'s. Karmaveer K. H. Abad Arts, Shriman M.G.Lodha Commerce and Shriman P.H. Jain Science College, Chandwad.	-
2.	Mr. Mahale Ashutosh Balasaheb	Avishkar	Poster	S.N.J.B.'s. Karmaveer K. H. Abad Arts, Shriman M.G.Lodha Commerce and Shriman P.H. Jain Science College, Chandwad.	-
3.	Mr. Gugale Rohit Rajkumar	Avishkar	Poster	S.N.J.B.'s. Karmaveer K. H. Abad Arts, Shriman M.G.Lodha Commerce and Shriman P.H. Jain Science College, Chandwad.	-
4.	Mr. Sager Aher, Ashutosh Mahale	Avishkar	Poster	K.K.W. Arts, Commerce and Science College. Pimpalgaon Baswant.	-
5.	Mr. S. A. Satpute	National Conference	Poster	Gangamai College of Pharmacy, Nagaon, Dhule	1 <sup>st</sup> Prize

**Academic Year: 2015-16**

Sr. No.	Name of Students	Event	Activity	Organized by	Award
1.	Miss. Pokharna Pornima S.	Avishkar	Poster	S.N.J.B.'s. Karmaveer K. H. Abad Arts, Shriman M.G.Lodha Commerce and Shriman P.H. Jain Science College, Chandwad	-
2.	Miss. Raut Pratiksha Mahesh	Avishkar	Poster	S.N.J.B.'s. Karmaveer K. H. Abad Arts, Shriman M.G.Lodha Commerce and Shriman P.H. Jain Science College, Chandwad	-
3.	Himani Rana	Avishkar	Poster	K. K. Wagh College , Pimpalgaon (B)	-
4.	Pradnya Jadhav				
5.	Mr. Bilal Merchant	Avishkar	Poster	Savitribai Phule Pune University, Pune.	-
6.	Mr. Shubham Gundewar				

**Academic Year: 2014-15**

Sr. No.	Name of Students	Event	Activity	Organized by	Award
1.	Mr. Gugale Rohit Rajkumar	National conference	Poster	MITCON, Pune	3 <sup>rd</sup> Prize
2.	U. N. Bhandari	National conference	Poster	MITCON, Pune	1 <sup>st</sup> prize

**CRITERION 5**  
**Faculty Information and**  
**Contributions**

<b>CRITERION 5</b>	<b>Faculty Information and Contributions</b>	<b>175</b>
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**5. Faculty information and Contribution**

**For CAY 2017-18**

Name of Faculty member	Qualification			Association with the Institution (years)	Designation	Date of Joining the Institution	Department	Specialization	Academic research			Sponsored Research	Consultancy and Product Development
	Degree (Highest Degree)	University	Year of Graduation						Research Paper publication	Ph. D. Guidance	Faculty Receiving Ph. D. During		
Dr. C. D. Upasani	Ph. D.	M. S. University, Baroda	2002	9	Prof & Principal	28/05/2009	Pharmacology	Pharmacology	04	08	NA	00	00
Dr. V. A. Chatpalliwar	Ph. D.	R. T. M. Nagpur University, Nagpur	2008	9	Professor	29/08/2009	Pharmaceutical	Pharmaceutical Chemistry	01	05	NA	00	00
Dr. G.D. Basarkar	Ph. D.	Nagpur University, Nagpur	2002	8	Professor	05/07/2010	Pharmaceutics	Pharmaceutics	01	05	NA	00	00
Dr. A. S. Mundada	Ph. D.	R. T. M. Nagpur University, Nagpur	2010	10	Asso. Professor	10/01/2008	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Dr. S.B. Patil	Ph. D.	M. S. University, Baroda	2009	9	Asso. Professor	29/08/2009	Pharmaceutics	Pharmaceutics	00	06	NA	00	00



Dr. A.B. Upaganlawar	Ph. D.	M. S. University, Baroda	2011	8	Asso. Professor	13/07/2010	Pharmacology	Pharmacology	04	NA	NA	00	00
Mrs. V. R. Daga	M. Pharm.	Kakatiya University, Warangal, Telengana	2003	13	Asstt. . Professor	15/12/2004	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Mr. H. V. Shahare	M. Pharm.	Mumbai University	2005	13	Asstt. . Professor	14/12/2004	Pharmaceutical	Pharmaceutical Chemistry	00	NA	NA	00	00
Dr. H. H. Gangurde	Ph. D.	Dr. M. G. R. Medical University	2015	11	Asstt. . Professor	01/02/2007	Pharmaceutics	Quality Assurance	00	NA	Yes	00	00
Mr. M. S. Mahajan	M. Pharm.	University of Pune	2008	10	Asstt. . Professor	04/08/2008	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Mrs. N. S. Baste	M. Pharm.	University of Pune	2007	11	Asstt. . Professor	27/08/2007	Pharmaceutics	Pharmaceutics	00	NA	NA	01	00

Mr. V. S. Borkar	M. Pharm.	Dr. M. G. R. Medical University	2007	10	Asstt. . Professor	11/07/2008	Pharmaceutical	Pharmaceutical Chemistry	00	NA	NA	00	00
Dr. V. S. Gulecha	Ph. D.	Dr. M. G. R. Medical University	2012	11	Asstt. . Professor	06/08/2007	Pharmacology	Pharmacology	01	NA	NA	00	00
Dr. M. A. Chordiya	Ph. D.	Dr. M. G. R. Medical University	2015	8	Asstt. . Professor	09/08/2010	Pharmaceutics	Pharmaceutics	02	NA	Yes	01	00
Mrs. C. T. Nemade	M . Pharm	North Maharashtra University	2005	11 years	Asstt. . Professor	01/08/2007	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Mr. R. A. Khandare	M . Pharm	Pune University	2007	10 years	Asstt. . Professor	04/08/2008	Pharmacology	Pharmacology	00	NA	NA	00	00
Mr. L. P. Kotharti	M . Pharm	Pune University	2010	8 years	Asstt. . Professor	05/10/2010	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00

Dr. P. K. Porwal	M. Pharm	Manipal Univeristy	2007	8	Asstt. . Professor	08/27/2010	Pharmaceutical	Quality Assurance	00	NA	Yes	00	00
Mrs. U.N. Dugarwal	M. Pharm	Pune Uniersity	2010	01	Asstt. Professor	01/02/2017	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Dr. S.B. Aher	Ph.D.	VIT Univesity, Vellore	2017	01	Asstt. Professor	24/7/2017	Pharm. Chemistry	Pharm. Chemistry	02	NA	NA	00	00
Mr. R.D. Nikam	M.Sc	Dr. B.A.M. University, Aurangabad	2012	01	Asstt. Professor	13/11/2017	Pharm. Chemistry	MSc	01	NA	NA	00	00

## For CAY MI 2016-17

Name of Faculty member	Qualification			Association with the Institution (years)	Designation	Date of Joining the Institution	Department	Specialization	Academic research			Sponsored Research (Funded Research)	Consultancy and Product Development
	Degree (Highest Degree)	University	Year of Graduation						Research Paper publication	Ph. D. Guidance	Faculty Receiving Ph. D. During Assessment		
Dr. C. D. Upasani	Ph. D.	M. S. University, Baroda	2002	8	Prof & Principal	28/05/2009	Pharmacology	Pharmacology	13	08	NA	00	00
Dr. V. A. Chatpalliw ar	Ph. D.	R. T. M. Nagpur University, Nagpur	2008	8	Professor	29/08/2009	Pharmaceutical	Pharmaceutical	01	05	NA	00	00
Dr. G.D. Basarkar	Ph. D.	Nagpur University, Nagpur	2002	7	Professor	05/07/2010	Pharmaceutics	Pharmaceutics	00	05	NA	00	00
Dr. A. S. Mundada	Ph. D.	R. T. M. Nagpur University, Nagpur	2010	9	Asso. Professor	10/01/2008	Pharmaceutics	Pharmaceutics	01	NA	NA	00	00
Dr. S.B. Patil	Ph. D.	M. S. University, Baroda	2009	8	Asso. Professor	29/08/2009	Pharmaceutics	Pharmaceutics	04	NA	NA	00	00

Dr. A.B. Upaganlawar	Ph. D.	M. S. University, Baroda	2011	7	Asso. Professor 13/07/2010	Pharmacology Pharmacology	02	NA	00	00
Mrs. V. R. Daga	M. Pharm.	Kakatiya University, Warangal, Telengana	2003	12	Asstt. . Professor 15/12/2004	Pharmaceutics Pharmaceutics	00	NA NA	01	00
Mr. H. V. Shahare	M. Pharm.	Mumbai University	2005	12	Asstt. . Professor 14/12/2004	Pharmaceutical Pharmaceutical	00	NA NA	00	00
Dr. H. H. Gangurde	Ph. D.	Dr. M. G. R. Medical University	2015	10	Asstt. . Professor 01/02/2007	Pharmaceutics Quality Assurance	04	NA Yes	00	00
Mr. M. S. Mahajan	M. Pharm.	University of Pune	2008	9	Asstt. . Professor 04/08/2008	Pharmaceutics Pharmaceutics	03	NA NA	00	00
Mrs. N. S. Baste	M. Pharm.	University of Pune	2007	10	Asstt. . Professor 27/08/2007	Pharmaceutics Pharmaceutics	01	NA NA	01	00

Mr. V. S. Borkar	M. Pharm.	Dr. M. G. R. Medical University	2007	9	Asstt. . Professor	11/07/2008	Pharmaceutical	Pharmaceutical	03	NA	NA	00	00
Dr. V. S. Gulecha	Ph. D.	Dr. M. G. R. Medical University	2012	10	Asstt. . Professor	06/08/2007	Pharmacology	Pharmacology	02	NA	NA	01	00
Dr. M. A. Chordiya	Ph. D.	Dr. M. G. R. Medical University	2015	7	Asstt. . Professor	09/08/2010	Pharmaceutics	Pharmaceutics	03	NA	Yes	01	00
Mrs. C. T. Nemade	M . Pharm	North Maharashtra University	2005	10	Asstt. . Professor	01/08/2007	Pharmacognosy	Pharmacognosy	03	NA	NA	01	00
Mr. R. A. Khandare	M . Pharm	Pune University	2007	10 years	Asstt. . Professor	04/08/2008	Pharmacology	Pharmacology	00	NA	NA	00	00
Mr. L. P. Kotharti	M . Pharm	Pune University	2010	8 years	Asstt. . Professor	05/10/2010	Pharmaceutics	Pharmaceutics	01	NA	NA	00	00

Dr. J. R. Baheti	Ph.D.	Gujarat Technical University, Gandhinagar	2007	9	Asstt. . Professor	16/10/2006	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Mr. P. K. Porwal	M. Pharm	Manipal Univeristy	2007	7	Asstt. . Professor	08/27/2010	Pharmaceutical	Quality	06	NA	NA	00	00
Mrs. U.N. Dunganwal	M. Pharm	Pune Uniersity	2010	1	Asstt. Professor	01/02/2017	Pharmaceutics	Pharmaceutics	01	NA	NA	00	00

**For CAYm2 2015-16**

Name of Faculty member	Qualification			Association with the Institution (years)	Designation	Date of Joining the Institution	Department	Specialization	Academic research			Sponsored Research (Funded Research)	Consultancy and Product Development
	Degree (Highest Degree)	University	Year of Graduation						Research Paper publication	Ph. D. Guidance	Faculty Receiving Ph. D. During Assessment		
Dr. C. D. Upasani	Ph. D.	M. S. University, Baroda	2002	7	Prof & Principal	28/05/2009	Pharmacology	Pharmacology	02	08	NA	00	00
Dr. V. A. Chatpalliw ar	Ph. D.	R. T. M. Nagpur University, Nagpur	2008	7	Professor	29/08/2009	Pharmaceutical	Pharmaceutical	01	05	NA	01	00

Dr. G.D. Basarkar	Ph. D.	Nagpur University, Nagpur	2002	6	Professor	05/07/2010	Pharmaceutics	Pharmaceutics	00	05	NA	00	00
Dr. A. S. Mundada	Ph. D.	R. T. M. Nagpur University, Nagpur	2010	8	Asso. Professor	10/01/2008	Pharmaceutics	Pharmaceutics	01	NA	NA	01	00
Dr. S.B. Patil	Ph. D.	M. S. University, Baroda	2009	7	Asso. Professor	29/08/2009	Pharmaceutics	Pharmaceutics	02	NA	NA	00	00
Dr. A.B. Upaganlawar	Ph. D.	M. S. University, Baroda	2011	6	Asso. Professor	13/07/2010	Pharmacology	Pharmacology	01	NA		01	00
Mrs. V. R. Daga	M. Pharm.	Kakatiya University, Warangal, Telengana	2003	11	Asstt. . Professor	15/12/2004	Pharmaceutics	Pharmaceutics	00	NA	NA	01	00
Mr. H. V. Shahare	M. Pharm.	Mumbai University	2005	11	Asstt. . Professor	14/12/2004	Pharmaceutical	Pharmaceutical	00	NA	NA	00	00
Dr. H. H. Gangurde	Ph. D.	Dr. M. G. R. Medical University	2015	9	Asstt. . Professor	01/02/2007	Pharmaceutics	Quality Assurance	03	NA	Yes	00	00



Mr. M. S. Mahajan	M. Pharm.	University of Pune	2008	8	Asstt. . Professor	04/08/2008	Pharmaceutics	Pharmaceutics	00	NA	NA	01	00
Mrs. N. S. Baste	M. Pharm.	University of Pune	2007	9	Asstt. . Professor	27/08/2007	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Mr. V. S. Borkar	M. Pharm.	Dr. M. G. R. Medical University	2007	8	Asstt. . Professor	11/07/2008	Pharmaceutical	Pharmaceutical	02	NA	NA	00	00
Dr. V. S. Gulecha	Ph. D.	Dr. M. G. R. Medical University	2012	9	Asstt. . Professor	06/08/2007	Pharmacology	Pharmacology	00	NA	NA	01	00
Dr. M. A. Chordiya	Ph. D.	Dr. M. G. R. Medical University	2015	6	Asstt. . Professor	09/08/2010	Pharmaceutics	Pharmaceutics	04	NA	Yes	00	00
Mrs. C. T. Nemade	M . Pharm	North Maharashtra University	2005	9	Asstt. . Professor	01/08/2007	Pharmacognosy	Pharmacognosy	00	NA	NA	01	00

Mr. R. A. Khandare	M . Pharm	Pune University	2007	8	Asstt. . Professor	04/08/2008	Pharmacology	Pharmacology	00	NA	NA	00	00
Mr. L. P. Kotharti	M . Pharm	Pune University	2010	6	Asstt. . Professor	05/10/2010	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00
Dr. S. S. Chhajed	M . Pharm	J. N. T. U., Andhra Pradesh	2013	3	Asstt. . Professor	13/07/2010	Pharmaceutical	Pharmaceutical	02	NA	NA	01	00
Mr. S. R. Jain	M . Pharm	Pune University	1995	7	Asstt. . Professor	10/07/2006	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Dr. J. R. Baheti	Ph.D.	Gujarat Technical University, Gandhinagar	2007	8	Asstt. . Professor	16/10/2006	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Mr. P. K. Porwal	M. Pharm	Manipal Univeristy	2007	6	Asstt. . Professor	08/27/2010	Pharmaceutical	Quality	01	NA	NA	01	00

## For CAYm3 2014-15

Name of Faculty member	Qualification			Association with the Institution (years)	Designation	Date of Joining the Institution	Department	Specialization	Academic research			Sponsored Research (Funded Research)	Consultancy and Product Development
	Degree (Highest Degree)	University	Year of Graduation						Research Paper publication	Ph. D. Guidance	Faculty Receiving Ph. D. During Assessment		
Dr. C. D. Upasani	Ph. D.	M. S. University, Baroda	2002	6	Prof & Principal	28/05/2009	Pharmacology	Pharmacology	02	08	NA	00	00
Dr. V. A. Chatpalliw ar	Ph. D.	R. T. M. Nagpur University, Nagpur	2008	6	Professor	29/08/2009	Pharmaceutical	Pharmaceutical	00	05	NA	01	00
Dr. G.D. Basarkar	Ph. D.	Nagpur University, Nagpur	2002	5	Professor	05/07/2010	Pharmaceutics	Pharmaceutics	02	05	NA	00	00
Dr. A. S. Mundada	Ph. D.	R. T. M. Nagpur University, Nagpur	2010	7	Asso. Professor	10/01/2008	Pharmaceutics	Pharmaceutics	00	NA	NA	01	00
Dr. S.B. Patil	Ph. D.	M. S. University, Baroda	2009	6	Asso. Professor	29/08/2009	Pharmaceutics	Pharmaceutics	02	NA	NA	00	00

Dr. A.B. Upaganlawar	Ph. D.	M. S. University, Baroda	2011	5	Asso. Professor	13/07/2010	Pharmacology	Pharmacology	03	NA	01	00
Mrs. V. R. Daga	M. Pharm.	Kakatiya University, Warangal, Telengana	2003	10	Asstt. . Professor	15/12/2004	Pharmaceutics	Pharmaceutics	02	NA	00	00
Mr. H. V. Shahare	M. Pharm.	Mumbai University	2005	10	Asstt. . Professor	14/12/2004	Pharmaceutical	Pharmaceutical	00	NA	01	00
Dr. H. H. Gangurde	Ph. D.	Dr. M. G. R. Medical University	2015	8	Asstt. . Professor	01/02/2007	Pharmaceutics	Quality Assurance	00	NA	00	00
Mr. M. S. Mahajan	M. Pharm.	University of Pune	2008	7	Asstt. . Professor	04/08/2008	Pharmaceutics	Pharmaceutics	02	NA	01	00
Mrs. N. S. Baste	M. Pharm.	University of Pune	2007	8	Asstt. . Professor	27/08/2007	Pharmaceutics	Pharmaceutics	01	NA	00	00

Mr. V. S. Borkar	M. Pharm.	Dr. M. G. R. Medical University	2007	7	Asstt. . Professor	11/07/2008	Pharmaceutical	Pharmaceutical	00	NA	NA	00	00
Dr. V. S. Gulecha	Ph. D.	Dr. M. G. R. Medical University	2012	8	Asstt. . Professor	06/08/2007	Pharmacology	Pharmacology	02	NA	NA	00	00
Dr. M. A. Chordiya	Ph. D.	Dr. M. G. R. Medical University	2015	5	Asstt. . Professor	09/08/2010	Pharmaceutics	Pharmaceutics	03	NA	Yes	00	00
Mrs. C. T. Nemade	M . Pharm	North Maharashtra University	2005	8	Asstt. . Professor	01/08/2007	Pharmacognosy	Pharmacognosy	03	NA	NA	00	00
Mr. R. A. Khandare	M . Pharm	Pune University	2007	7	Asstt. . Professor	04/08/2008	Pharmacology	Pharmacology	01	NA	NA	00	00
Mr. L. P. Kotharti	M . Pharm	Pune University	2010	5	Asstt. . Professor	05/10/2010	Pharmaceutics	Pharmaceutics	00	NA	NA	00	00

Dr. S. S. Chhajed	M . Pharm	J. N. T. U., Andhra Pradesh	2013	2	Asstt. . Professor	13/07/2010	Pharmaceutical	Pharmaceutical	00	NA	NA	01	00
Mr. S. R. Jain	M . Pharm	Pune University	1995	6	Asstt. . Professor	10/07/2006	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Dr. J. R. Baheti	Ph.D.	Gujarat Technical University, Gandhinagar	2007	7	Asstt. . Professor	16/10/2006	Pharmacognosy	Pharmacognosy	00	NA	NA	00	00
Mr. P. K. Porwal	M. Pharm	Manipal Univeristy	2007	5	Asstt. . Professor	08/27/2010	Pharmaceutical	Quality	01	NA	NA	01	00

### 5. 1 Student Faculty Ratio (SFR) 20

(No of Faculty as per the sanctioned intake)

No. of UG Programs in the Department (n):01

No. of PG Programs in the Department (m):02

No. of Students in UG 1<sup>nd</sup> Year= **u1**

No. of Students in UG 2<sup>rd</sup> Year= **u2**

No. of Students in UG 3<sup>th</sup> Year= **u3**

No. of Students in UG 4<sup>th</sup> Year= **u4**

No. of Students in PG 1<sup>st</sup> Year= **p1**

No. of Students in PG 2<sup>nd</sup> Year= **p2**

**No. of Students = Sanctioned Intake + Actual admitted lateral entry**

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + PG1 + PG2 F = Total Number of Regular Faculty Members in the Department

**Student Faculty Ratio (SFR) = S/F**

Year	CAY ( 2017-18)	CAYm1 ( 2016-17)	CAYm2 ( 2015-16)
u1.1	60	60	60
u1.2	66 ( 60 SI+ 6 Lateral entry)	66 ( 60 SI+ 6 Lateral entry)	66 ( 60 SI+ 6 Lateral entry)
u1.3	60	60	60
u1.4	60	60	60
UG1	<b>246</b>	<b>246</b>	<b>246</b>
p1.1	30	42	42
p1.2	30	42	42
<b>Total PG</b>	<b>60</b>	<b>84</b>	<b>84</b>
Total No. of Students in the Department (S)	<b>306</b>	<b>330</b>	<b>330</b>
No. of Faculty in the Department (F)	<b>21</b>	<b>20</b>	<b>21</b>
Student Faculty Ratio (SFR)	<b>SFR1=S1/F1 14.57</b>	<b>SFR2= S2/F2 16.50</b>	<b>SFR3= S3/F3 15.71</b>
<b>Average SFR</b>	<b>SFR=(SFR1+SFR2+SFR3)/3 46. 78/3 = 15.59</b>		

**5.1.1 : Provide the information about the regular and contractual faculty as per the format mentioned below:**

	Total number of regular faculty in the department	Total number of contractual faculty in the department
<b>CAY (2017- 18)</b>	21	Nil
<b>CAYm1 (2016-17)</b>	20	Nil
<b>CAYm2 (2015-16)</b>	21	Nil

Table: 5.1.1

**5.2. Faculty Cadre Proportion (20)**

*(The reference Faculty cadre proportion is 1:2:6 i.e.; Professor: Associate professor: Assistant professor)*

*The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)*

*F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio.*

*F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio.*

*F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio*

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
<b>CAY (2017-18)</b>	01	02	03	01	11	14
<b>CAYm1 (2016-17)</b>	01	02	03	02	11	12
<b>CAYm2 (2015-16)</b>	01	02	03	03	11	12
<b>Average Numbers</b>	RF1=01	AF1=02	RF2=03	AF2=02	RF3=11	AF3= 13

**5.3.Faculty Qualification (20)**

Following is the information in the prescribed format details about the retention of faculty at different cadre in assessment years.

*FQ = 2\*(10X +6Y)/F where X is no. of faculty with Ph.D., Y is no. of faculty with M. Pharm., F is no. of faculty required to comply 1:15 Faculty Student ratio (no. of faculty and no. of students required to be calculated as per 5.1)*



Assessment year	X	Y	F	$FQ = 2 \times [(10X + 4Y)/F]$
<b>CAY (2017-18)</b>	10	11	22	13.09
<b>CAYm1 (2016-17)</b>	10	10	22	12.72
<b>CAYm2 (2015-16)</b>	11	10	22	13.63
<b>Average assessment:</b>	10.33	10.33	22	$FQ = 2 \times [(103.3 + 41.32)/22]$ $= 2 \times [(144.62)/22]$ $= 2 \times [6.57]$ $= \mathbf{13.14}$

#### 5.4. Faculty Retention (20)

Item	Marks
$\geq 90\%$ of required Faculty members retained during the period of Assessment keeping CAYm2 as base year	20
$\geq 75\%$ of required Faculty members retained during the period of	16
$\geq 60\%$ of required Assessment keeping CAYm2 as base year	12
$\geq 50\%$ of required Faculty members retained during the period of Assessment keeping CAYm2 as base year	08
$< 50\%$ of required Faculty members retained during the period of Assessment keeping CAYm2 as base year	0

Item	Marks
<i>Required faculty as per point 5.1 = 22</i> <i>Retained faculty during the period of assessment keeping CAYm2 as base year = 21</i> <i>Percentage of faculty retained = 95.45</i>	<b>20</b>

#### 5.5 Innovations by the Faculty in Teaching and Learning (15)

- Our college has installed projectors in every class room for utilization by the faculty during lectures. The facility is being utilized during classes. The faculty is constantly encouraged to update their ICT skills using ICT-based teaching methodology.
- Faculty are often engaged in developing their respective lectures using different techniques like developing website and having the lecture ready on it to be used in a flipped-class-room-activity.
- Concerned topics are discussed in class with several encouraging and accommodating sessions like think-pair-share activity, demonstration, and then cross-questions.
- Some thought provoking short-films, other than curriculum, are displayed in-between classes to cultivate the good thinking practice among the students.
- Faculty members are regularly deputed to participate in the Faculty development programmes, organized during summer/winter session within the country.

- Recently, in 2017 & 2018, programmes conducted by IIT, Mumbai, have been attended by a faculty member. The programmes were jointly organized by AICTE and IIT, Mumbai, and was entitled Pedagogy for Effective use of ICT in Engineering Education, and Mentoring Educators in Educational Technology.
- Several videos are uploaded by a faculty member, Dr. V. A. Chatpalliwar, are available on YOU TUBE since September 2017, for students to watch and learn to prepare for their respective course. Several blogs are also available on the website [www.vchatpalliwar.wordpress.com](http://www.vchatpalliwar.wordpress.com).
- Concerned students regularly visit the sites and watch the videos. They discuss their difficulties with the faculty.
- Dr. Sainath Aher has prepared several power point presentations which are available on the social media for the students for study. Following are the contributions made available to the students since 2017.
- Colum Chromatography  
<https://www.youtube.com/watch?v=Zke6xGhbbho>
- Paper Chromatography  
<https://www.youtube.com/watch?v=FQqVqVZgKjA>  
<https://www.youtube.com/watch?v=gpFb635N2wo>
- Capillary Electrophoresis  
<https://www.youtube.com/watch?v=wStV1rFjHOo>
- Powder X-Ray diffraction  
<https://www.youtube.com/watch?v=C1cYJthlBZY&t=3s>
- Dr. Atish S. Mundada has prepared several teaching aid, interactive presentations in the subject taught at undergraduate levels are available at [www.authorstream.com](http://www.authorstream.com) with the name [www.authorstream.com/mundadaatish/](http://www.authorstream.com/mundadaatish/). These contents are accessible to students.
- The P. G. Department of Pharmaceutical Chemistry has developed a water circulation system in their laboratories to circulate used water through cooling systems. This simple modification saves ample water from being wasted in chemistry laboratory work, and is important in the draught-affected area.
- The department has developed a practice of maintaining minimum number of thermometers, which have been duly calibrated and appropriately labeled, and their calibration displayed over the wall for reference. The students use this information regularly to correct the temperature observations.

- The P. G. Department of Pharmacology has developed an innovative animal holder to study a model of diabetic neuropathy in rodents. The equipment is also available for students from other colleges to avail the facility and study effects of their synthesized compounds/extracts on diabetic neuropathy.

### 5. 6. Faculty as Participants in Faculty Development/Training Activities (15)

*A Faculty scores maximum five points for participation*  
*Participant in 2 to 5 days Workshop/Faculty Development Program: 3 Points*  
*Participant >5 days Workshop/Faculty Development Program: 5 points*

Name of the faculty	Max. 5 per faculty		
	CAY (2017-18)	CAYm1 (2016-17)	CAYm2 (2015-16)
Dr. C. D. Upasani	3	3	3
Dr. V. A. Chatpalliwar	5	0	0
Dr. A. B. Upaganlawar	0	5	0
Mrs. V. R. Daga	0	5	0
Mrs. N. S. Baste	0	0	5
Dr. H. H. Gangurde	0	5	0
Dr. M. A. Chordiya	5	3	0
Mrs. C. T. Nemade	0	0	5
<b>Sum</b>	<b>13</b>	<b>21</b>	<b>13</b>
RF = Number of faculty required to comply with 15: 1 Student Faculty ratio as per 5.1	15.71	16.50	15.71
Assessment = $3 \times \text{SUM} / (0.5 \text{ RF})$	$3 \times 13 / 7.85 =$ <b>4.96</b>	$3 \times 21 / 8.25 =$ <b>7.63</b>	$3 \times$ $13 / 7.85 =$ <b>4.96</b>
<b>Average assessment over three years ( Marks limited to 15)</b>	<b>5.85</b>		

### 5.7: Research and Development (40)

#### 5. 7. 1. Academic research (10)

*Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.*

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)*
- Ph.D. guided/Ph.D. awarded during the assessment period while working in the institute (4)*

All relevant details shall be mentioned.

## List of Publications by faculty members in 2017-`18

Sr.No	Name of the Staff Member	Department	Title of the Paper	Journal Details	Impact factor
1.	Dr. C. D. Upasani	Pharmacology	Design and synthesis of 2, 5-disubstituted oxadiazole as novel PTP1b inhibitors	International Journal of Pharmaceutical and Phytopharmacological Research, 3, 5, 383-386	-
			Phenolic content and in vitro antioxidant activity of <i>Millingtonia hortensis</i> Linn	International Journal of Pharmaceutical, Chemical & Biological Sciences, 7, 3	-
			Analgesic and Anti-inflammatory Potential of <i>Ficus glomerata</i> Leaves Fractions in Experimental Animals	Journal of Basic Pharmacology and Toxicology, 1, 1, 13-17	-
2.	Dr. V. A. Chatpalliwar	Pharm. Chem.	Synthesis of Benzamides by Microwave Assisted Ring Opening of Less Reactive Dimethylbenzylidene	Arabian Journal of Chemistry, 10, S859-S863	2.9
3	Dr. G. D. Basarkar	Pharmaceutics	Optimization of Formulation Process Using Design Expert Software for Preparation of Polymeric Blends- Artesunate-Amodiaquine HCl Microparticles	Journal of Drug Delivery Science and Technology, 39, 36-49	2.2
4	Dr. A. B. Upaganlawar	Pharmacology	Protective Effect of Ferulic Acid Alone and in Combination with Ascorbic Acid on Aniline Induced Spleen Toxicity	Annals of Pharmacology and Pharmaceutics, 2(1): 1012	3.3
			Supplementation of Corosolic acid prevents the development of Neuropathic pain in streptozotocin induced diabetic rats	Journal of Pharmacology and Clinical Sciences, 2016, 1(1): 11-18	
			Protective Effects of $\alpha$ -Lipoic Acid and in Combination with Ferulic Acid in Diabetes Induced Nephropathy in Rats: A Biochemical and Histoarchitecture Study	Asian Journal of Biochemical and Pharmaceutical Research, 2(7), 59 - 69	
			Neuroprotective Effects of Protocatechuic Acid in Diabetes Induced Neuropathic Pain	American Journal of Biochemistry and Molecular Biology, 7 (3), 111-117	

5.	Dr. Vishal Gulechha	Pharmacology	Analgesic and Anti-inflammatory Potential of <i>Ficus glomerata</i> leaves Fractions in Experimental Animals	Journal of Basic Pharmacology and Toxicology, 1,(1), 13-17	0.17
6	Dr. M. A. Chordiya	Pharmaceutics	Organized Surfactant System: Micro Emulsion	Novel Approaches in Drug Discovery and Development, 1 (2)	0.66
			Technologies, Optimization and Analytical Parameters in Gastroretentive Drug Delivery Systems	Current Science, VOI 112, 5 (10)	
7	Dr. S. B. Aher	Pharm. Chem.	Synthesis, Characterization and Anti-microbial Properties of Methylbenzyl and Nitrobenzyl containing Imidazolium-based Silver N-heterocyclic Carbenes	Journal of Molecular Liquids 233, 270-277	2.85
			Silver(I) Complexes of Imidazolium based N-heterocyclic Carbenes for anti-bacterial Applications	Journal of Molecular Liquids , 231, 396-403	
8	Mr. Rahul D. Nikam	Pharm. Chem.	Biopharmaceutical Potentials of <i>Prosopis spp.</i> (Mimosaceae, Leguminosa)	Journals of Food and Drug Analysis, 25, 187-96	2.8

### List of Publications by faculty members in 2016-17

Sr No	Name of the Staff Member	Department	Title of the Paper	Journal Details	Impact factor
1.	Dr. C. D. Upasani	Pharmacology	Article Details Evaluation of analgesic and antiinflammatory activity of <i>Cuscuta reflexa</i> extracts on animal models	Indian Drugs Volume No. 53, Issue No.10 Page No. 54-62	
			Free radical scavenging and anti-lipid peroxidation activity of <i>Abelmoschus manihot</i> (L.) Medik Stems	THE EXPLORER, VOL. 01, Issue 1, 2016	
			Design, synthesis and molecular modeling studies of few chalcone analogues of benzimidazole for epidermal growth factor receptor inhibitor in search of useful anticancer agent	Computational Biology and Chemistry, Volume 61, April 2016, Pages 138-144	1.2
			Phenolic content and in vitro antioxidant activity of millingtonia	International Journal of Pharmaceutical, Chemical	0.62

		hortensis linn	& Biological Sciences, Volume 7 Issue, 3	
		Synthesis and in-silico molecular docking simulation of 3-chloro-4-substituted-1-(2-(1H-benzimidazol-2-yl) phenyl))-azetidin-2-ones as novel analgesic anti-inflammatory agent	Arabian Journal of Chemistry Volume 9 Pages S1779-S1785 Publisher Elsevier	
		Design and synthesis of 2, 5-disubstituted oxadiazole as novel PTP1b inhibitors	International Journal of Pharmaceutical and Phytopharmacological Research Volume 3, Issue 5, Pages 383-386	1.83
		Preliminary phytochemical analysis and in vitro anthelmintic activity of Millingtonia hortensis Linn	International Journal of Pharmaceutical, Chemical & Biological Sciences Volume 6 Issue 3	1.11
		Analgesic and Anti-inflammatory Potential of Ficus glomerata Leaves Fractions in Experimental Animals	Journal of Basic Pharmacology and Toxicology Volume1, Issue1, Pages13-17	0.99
		Hyperhidrosis: A Social and Physiological Embarrassing Disease	International Journal of Chemical and Life Sciences Volume2Issue 2Pages1091-1098	
		Alcoholic extract of Banaba leaf prevents chronic con-striction injury induced neuropathic pain in experimental animals	Annals of Medical and Biomedical Sciences, Volume 2, Issue 1	
		Recent and Emerging Trends in Treatment of Diabetic Patients with Peripheral Neuropathic Pain (PNP)	International Journal of Engineering Technology Science and Research IJETSR www.ijetsr.com ISSN 2394 3386 Volume 3, Issue 3	1.2
		Development and Validation of Stability Indicating RP-HPLC Method for Empagliflozin	Asian Journal of Pharmaceutical Analysis Volume 6, Issue 4, Pages	2.47

				201-206	
			Ameliorative Effect of Chronic Supplementation of Protocatechuic Acid Alone and in Combination with Ascorbic Acid in Aniline Hydrochloride Induced Spleen Toxicity in Rats	Scientifica Volume 2016 Publisher Hindawi	
2.	Dr. V. A. Chatpalliw ar	Pharm. Chem.	Development and Validation of Stability Indicating RP-HPLC Method for Empagliflozin	Asian Journal of Pharmaceutical Analysis Volume 6, Issue 4, Pages 201-206	
3	Dr. A.S.Mundada	Pharmaceutics	Formulation and Evaluation of Coprocessed Excipient for Mouth Dissolving Formulation	International Journal of Drug Development and Research	
4	Dr. S. B. Patil	Pharmaceutics	Optimization of formulation processes using Design Expert Software for preparation of polymeric blends-artesunate-amodiaquine HCl microparticles	Journal of Drug Delivery Science and Technology Volume39Pages36-49 Publisher Elsevier	2.297
		Pharmaceutics	Development of In Situ Gelling Inserts by Lyophilization for Nasal Delivery of Terbutaline Sulfate	Polymer-Plastics Technology and Engineering Volume56, Issue, 10Pages 1068-1075 Publisher Taylor & Francis	1.655
			Development of orodispersible tablets of taste masked rizatriptan benzoate using hydroxypropyl $\beta$ cyclodextrin	Journal of Pharmaceutical Investigation Volume 46Issue6 Pages537-545 Publisher Springer Netherlands	
			Ion activated in situ gel of gellan gum containing salbutamol sulphate for nasal administration	International journal of biological macromolecules 87, 41-47	
5	Dr. A. B. Upaganla war	Pharmacology	Ameliorative Effect of Chronic Supplementation of Procatechuic acid and in Combination with Ascorbic acid in Aniline Hydrochloride Induced Spleen	Hindwai Publishing Corporation Scientifica <a href="http://dx.doi.org/10.1155/2016/4306984">http://dx.doi.org/10.1155/2016/4306984</a>	

			Toxicity in Rats		
			Neuroprotective Effects of Lagerstroemia speciosa L.Extract (Banaba Leaf Extract) in Streptozotocine Induced Painful Diabetic Neuropathy in Laroatory Rats	Pharmacologia, 7(1): 9-15, 2016	
6	Dr. H. H. Gangurde	Pharmaceutics	Hyperhidrosis: A Social and Physiological Embarrassing Disease	Asian Specific Journal of Medical and Pharmaceutical Sciences, Vol.1 (01), 11-24	0.96
			Technologies, optimization and analytical parameters in gastroretentive drug delivery systems.	Current Science (00113891) 112 (5)	
			To Study the Effect of Different Polymer Ratio on Drug Release of Bilayer Floating Drug Delivery System	World Journal of Pharmaceutical Research, 5 (7), 1484-1503	
			Diseases, approaches and evaluation parameterrs for colon specific drug delivery: a review	International Journal of Drug Research and Technology 2 (3), 23	
7	Dr. Mayur A. Chordiya	Pharmaceutics	Technologies, optimization and analytical parameters in gastroretentive drug delivery systems.	Current Science (00113891) 112 (5)	
			To Study the Effect of Different Polymer Ratio on Drug Release of Bilayer Floating Drug Delivery System	World Journal of Pharmaceutical Research, 5 (7), 1484-1503	
			Diseases, approaches and evaluation parameterrs for colon specific drug delivery: a review	International Journal of Drug Research and Technology 2 (3), 23	
8	Mr. V. S. Borkar	Pharm. Chem.	Technologies, optimization and analytical parameters in gastroretentive drug delivery systems.	Current Science (00113891) 112 (5)	
			To Study the Effect of Different Polymer Ratio on Drug Release of Bilayer Floating Drug Delivery System	World Journal of Pharmaceutical Research, 5 (7), 1484-1503	
			Diseases, approaches and evaluation parameters for colon specific drug delivery: a review	International Journal of Drug Research and Technology 2 (3), 23	
9	Mr. Pawan Porwal	Pharmaceutical Chemistry	Assay of Desmopressin Acetate in Nasal Spray: Development of Validated Pre Column HPLC-Fluorescence Method	Advanced pharmaceutical bulletin 7 (3), 451	



			Development of validated HPLC-UV method for simultaneous determination of Metformin, Amlodipine, Glibenclamide and Atorvastatin in human plasma and application to protein	Bulletin of Faculty of Pharmacy, Cairo University 55 (1), 129-139	1.1
			Assay of Desmopressin Acetate in nasal spray: Development of Validated Pre column HPLC-Fluorescence method: Assay of Desmopressin Acetate in nasal spray	Advanced Pharmaceutical Bulletin 7 (3)	1.2
			Glycation Alter Serum Albumin Binding of Valsartan and Nateglinide When Studied Contemporarily	Journal of Liquid Chromatography & Related Technologies	0.5
			Enhancement of Pioglitazone Hydrochloride solubility via Inclusion complexation with $\beta$ -Cyclodextrins-Optimization and Evaluation Studies.	Asian Journal of Biomaterial Research 4 (2), 39-51	1.2
			Degradation Kinetics of Olopatadine HCL Using a Validated UV-Area under Curve Method	Journal of Analytical & Pharmaceutical Research 2 (2), 16-24	
10	Mrs. U.N. Dunganwar 1	Pharmaceutics	Development of Orodispersible Tablets of Taste Masked Rizatriptan benzoate Using Hydroxylpropyl- $\beta$ -Cyclodextrin	Journal of Pharmaceutical Investigation, DOI 10.1007/s40005-016-0240-5	1.09

### List of Publications by faculty members in 2015-`16

Sr.No	Name of the Staff Member	Department	Title of the Paper	Journal Details	Impact factor
1.	Dr. C. D. Upasani	Pharmacology	Effects of abrus precatorius aqueous leaves extract on some hematological parameters in normal and diabetic rats.	Asian Journal of Biochemistry Volume, 12, Issue2, Pages 18-25	<b>2.62</b>
			Protective Effects of Ferulic Acid in Alcohol Withdrawal Induced Anxiety and Depression in Mice	Malaysian Journal of Medical and Biological Research Volume2Issue3, Pages231-236	<b>1.22</b>
2.	Dr. V. A. Chatpalliwar	Pharm. Chem.	Liquid Chromatographic Method of Simultaneous quantitation of Clopidogrel, Aspirin, and Atorvastatin in Rat Plasma and its application	Journal of Chromatographic Science, 2015, 53, 1155-1162	<b>0.94</b>

			to the Pharmacokinetic Study		
3	Dr. S.B. Patil	Pharmaceutics	Self-micro emulsifying drug delivery system-a review	www.wjpps.com Vol 4, Issue 07, 2015.	
			Formulation Development and Optimization of Floating Granules of Acyclovir by Melt Granulation Technique	Particulate Science and Technology 33 (3), 301-307	
4	Dr. A.S.Mundada	Pharmaceutics	Formulation, Development and Optimization of Fast Dissolving Oral Film of Montelukast Sodium	Int J Drug Dev & Res 7 (4), 040-046	
			Evaluation of Luffa aegyptica mill Powder: A Novel Superdisintegrant in Delayed Release Tablets	Journal of Pharmaceutics & Drug Development 3 (1), 1	
5	Dr. A. B. Upaganlwar	Pharmacology	Protective Effects of Dioscorea Alata L. in Aniline Exposure-Induced Spleen Toxicity in Rats: A Biochemical Study	Toxicology International. 21 (3), 294-299	<b>1.25</b>
6	Dr. H. H. Gangurde	Pharmaceutics	Anti-Ulcer Effect of Fractions of Hydroleazeylanica on Pyloric Ligated Induced Ulcers in Rats	Journal of Pharmaceutical Sciences and Pharmacology 2 (3), 228-232	
			Antidiabetic activity and isolation of bioactive compounds from hydroleazeylanica.	Indonesian Journal of Pharmacy/Majalah Farmasi Indonesia 26 (4)	
			Ethno medicinal properties of Echinochloa colona and Hydrolea zeylanica: A review	World J Pharm Pharmc Sci 5, 354-60	
7	Mr. V. S. Borkar	Pharm. Chem.	Anti-Ulcer Effect of Fractions of Hydroleazeylanica on Pyloric Ligated Induced Ulcers in Rats	Journal of Pharmaceutical Sciences and Pharmacology 2 (3), 228-232	
			Antidiabetic activity and isolation of bioactive compounds from hydroleazeylanica.	Indonesian Journal of Pharmacy/Majalah Farmasi Indonesia	

				26 (4)	
8	Dr. S. C. Chhajed	Pharm. Chem.	Ethno medicinal properties of Echinochloa colona and Hydrolea zeylanica: A review	World J Pharm Pharmc Sci 5, 354-60	
			Liquid chromatographic method for simultaneous quantitation of clopidogrel, aspirin and atorvastatin in rat plasma and its application to the pharmacokinetic study	Journal of chromatographic science 53 (7), 1155-1162	
9	Mr. Pawan K. Porwal	Pharm. Chem.	Liquid chromatographic method for simultaneous quantitation of clopidogrel, aspirin and atorvastatin in rat plasma and its application to the pharmacokinetic study	Journal of chromatographic science 53 (7), 1155-1162	
10	Dr. M. A. Chordiya	Pharmaceutics	Formulation and In Vitro Evaluation of Chitosan and Hydroxy Ethyl Cellulose Interpenetrating Polymer Networks for Diltiazem Hydrochloride	Scholar Bulletin, 1, 107, 115	
			Development of Interpenetrating Polymer of Chitosan and Gaur Gum for Propanolol Hydrochloride	Sch. Acad. J. Pharm 4, 315-323	
			Antidiabetic activity and isolation of bioactive compounds from hydroleazezylanica.	Indonesian Journal of Pharmacy/Majalah Farmasi Indonesia 26 (4)	
			Ethno medicinal properties of Echinochloa colona and Hydrolea zeylanica: A review	World J Pharm Pharmc Sci 5, 354-60	

## List of Publications by faculty members in 2014-15

Sr No	Name of the Staff Member	Department	Title of the Paper	Journal Details	Impact factor
1.	Dr. C. D. Upasani	Pharmacology	Effect of novel inhibitor of protein tyrosine phosphatase PTP 1B (NCE-9) on the amelioration of hyperglycemia in DIOmice	Journal of Advanced Pharmacy Education & Research Jan-Mar 2014 Vol 4, Issue 1, 54	
			Involvement of NO-cGMP pathway in anti-hyperalgesic effect of PDE5 inhibitor tadalafil in experimental hyperalgesia	Journal Inflammopharmacology, Volume23, Issue4, Pages 187-194	
2	Dr. G. D. Basarkar	Pharmaceutics	A Review of Pellets and Pelletization Process- A Multiparticulate Drug Delivery System	IJPSR, 4(6), 2145-2158	
			Evaluation of <i>Luff aegyptica</i> Mill Powder: A Novel Superdisintegrant in Delayed Release Tablets	Journal of Pharmaceutics and Drug Development,1(2), 101	
3	Dr. S. B. Patil	Pharmaceutics	Formulation Development and Optimization of Floating Granules of Acyclovir by Melt Granulation Technique	Particulate Science and Technology Volume33 Issue 3 Pages301-307 PublisherTaylor & Francis	1.081
			Self-micro emulsifying drug delivery system-a	World Journal of Pharmacy and Pharmaceutical Sciences, ISSN 2278-4375	5.201
4	Dr. A. B. Upaganlawar	Pharmacology	Protective Effects of Ferulic Acid in Alcohol Withdrawal Induced Anxiety and Depression in Mice	Malaysian Journal of Medical Biology Research, Volume 2, No.3, 231	
			Cardioprotective Effects of Co-Administration of Pomegranate Extract and Vitamin E on	Pharmacologia 6, (5): 178-185	

			Electrocardiographic, Biochemical and Apoptotic Changes in isoproterenol Induced Myocardial Infarction in Rats		
			DL- $\alpha$ -Lipoic Acid Attenuates Acute Aniline Induced Splenic Toxicity in Rats: A Biochemical and Histoarchitecture Study	Asian Journal of Pharmacology and Toxicology, 03 (08), 4-7	
			Analgesic and Anti-inflammatory Activity of Abulition indicum in Experimental Animals	Swayamprakash, Volume XI (1), 71 - 77	
5	Mrs. V. R. Daga	Pharmaceutics	An Overview of Some Natural Colouring Agents Used in Pharmaceutical Formulations	World Journal of Phamraceutical Research, 3 (3), 3904-3916	<b>0.18</b>
			Controlled release microspheres of ambroxol hydrochloride: effects of formulation parameters	World Journal of Phamraceutical Research, Vol 3, Issue 4, 2014. 744	
6	Mrs. Nayana Baste	Pharmaceutics	Controlled release microspheres of ambroxol hydrochloride: effects of formulation parameters	World Journal of Phamraceutical Research, Vol 3, Issue 4, 2014. 744	
7	Mrs. C. T. Nemade	Pharmacognosy	A Review on Ethnobotanical, Pharmacological Activities of <i>Quisqualis indica</i> Linn.	Research Journal of Pharmacognosy and Phytochemistry, 9(1), 47-52	<b>0.18</b>
			Formulation and Evaluation of a Herbal Facial Scrub	World Journal of Pharmaceutical Research, 3(3), 4367- 4371	
			Controlled release microspheres of ambroxol hydrochloride: effects of formulation parameters	World Journal of Phamraceutical Research, Vol 3, Issue 4, 2014. 744	
8	Dr. Vishal S. Gulecha	Pharmacology	Nootropic activity of Caralluma fimbriata extract in mice	Food and Nutrition Sciences 5 (02), 147	
			Pharmacological Screening of <i>Lanata camara</i> for its Anti-allergic Activity in Rodents	Food and Nutrition Sciences 5 (02), 147	

9	Mr. Rakesh A. Khandare	Pharmacology	Nootropic activity of Caralluma fimbriata extract in mice	Food and Nutrition Sciences 5 (02), 147	
10	Mr. M. S. Mahajan	Pharmacology	Pharmacological Screening of <i>Lanata camara</i> for its Anti-allergic Activity in Rodents	Clinical anti-inflammatory & Anti-Allergy Drugs, 1, 129-136	
		Pharmacology	Nootropic activity of Caralluma fimbriata extract in mice	Food and Nutrition Sciences 5 (02), 147	
11	Dr. M. A. Chordiya	Pharmaceutics	A Review of Osmotically Drug Delivery System	World Journal of Pharmacy and Drug Delivery System, 3 (12), 1708-1728	<b>0.19</b>
			Development and in Vitro Evaluation of Bilayer Elementary Osmotic Tablet of Verapamil Hydrochloride	Americal Journal of Pharmacy and Health Research, 2, 12	
			Development of Monolayer Elementary Osmotic Tablet of Verapamil Hydrochloride	World Journal of Pharmaceutical Sciences, 2321, 3310	
12	Mr. Pawan Porwal	Pharm. Chem.	Assessment by HPLC of the degradation behavior of acitretin under hydrolytic, oxidative, photolytic and thermal stress conditions	Acta Pharmaceutica Sinica B 4 (6), 438-446	

**Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (4)**

Sr. No.	Assessment Year	Name of Ph. D. Guide	Number of Ph. D. Scholar/s under guidance	Number of Ph. D. Scholar/s Awarded
	2017-'18	Dr. C. D. Upasani	8	-
		Dr. G. S. Talele	1	1
		Dr. S. V. Amrutkar	2	-
		Dr. V. A. Chatpalliwar	5	-
		Dr. G. D. Basarkar	5	-
		Dr. S. B. Patil	5	-
		Dr. A. S. Mundada	-	-
		Dr. M. M. Ghaisas	1	-
	2016-'17	Dr. C. D. Upasani	8	1
		Dr. G. S. Talele	2	-
		Dr. S. V. Amrutkar	2	-
		Dr. V. A. Chatpalliwar	5	-

		Dr. G. D. Basarkar	4	-
		Dr. M. M. Ghaisas	1	-
	2015-'16	Dr. C. D. Upasani	8	-
		Dr. G. S. Talele	2	-
		Dr. S. V. Amrutkar	2	-
		Dr. V. A. Chatpalliwar	5	-
		Dr. G. D. Basarkar	4	-
		Dr. M. M. Ghaisas	1	-
		2014-'15	Dr. C. D. Upasani	1
	Dr. G. S. Talele		2	-
	Dr. S. V. Amrutkar		1	-
	Dr. V. A. Chatpalliwar		5	-
	Dr. G. D. Basarkar		4	-
	Dr. M. M. Ghaisas		1	-

**Number of Ph. D. awarded as per teacher during the last five years**

Name of the Ph. D. Scholar	Name of the Department	Name of the Guides	Title of the Thesis	Year of Registrati on of the Scholar	Year of Award of Ph. D.
Dr. Kishore V. Otari	Pharmacology	Dr. C. D. Upasani	Neuropharmacological Investigations Phosphodiesterase Inhibitor in Experimental animals	2012	2016
Dr. Pawan K. Porwal	Pharmaceutic al Chemistry	Dr. Gokul S. Talele	Development of Bio-analytical Methods for Some Drugs used in Diabetic Complications	2013	2017

**5.7.2 SPONSORED RESEARCH (10)**

**AY 2014-15:**

Sr. No.	Name of Faculty	Project Title	Funding Agency	Amount	Duration
1.	Dr. V. A. Chatpalliwar	Design and Developing Structure Activity relationship around 2-amino group on Benzamide Derivatives for Glucokinase Activation	Board of College and University Development , Pune University, Pune	2, 40, 148/-	2 years
2.	Mr. Manoj S. Mahajan	Evaluation of Potential of some novel ion-channel blockers in animal models of	Board of College and University Development	1, 64, 240/-	2 years

		neuropathic pain	, Pune University, Pune		
3.	Dr. Pawan K. Porwal	Establishing Effects of Co-medicated prescriptions on absorptions, protein binding capacity and Metabolism of oral anti-diabetic pharmacotherapy through in vitro studies	Board of College and University Development , Pune University, Pune	1, 60, 000/-	2 years
4.	Dr. Santosh S. Chhajed	Virtual Screening of Few Thiazolidine-2, 4-dione analogues into the binding Domain of Peroxisome-Proliferator Activator Receptor Gamma (PPAR) in the Search of Useful Anti-diabetic Agent	Board of College and University Development , Pune University, Pune	2, 07, 741/-	2 years
6.	Dr. Aman B. Upaganlawar	Evaluation of Anti-Oxidant and anti-nociceptive effect of <i>Corosolic acid</i> in <i>Streptozotocin-induced</i> painful diabetic neuropathy	Board of College and University Development , Pune University, Pune	1, 95, 516/-	2 years
7.	Dr. Atish S. Mundada	Formulation, Development, and Evaluation of Sustained Release Beads of Novel Biomaterial	Board of College and University Development , Pune University, Pune	1, 72, 614/-	2 years
8.	Mr. Hitesh V. Shahare	Design, Sythesis and Pharmacological Screening of some 2-Substituted Benzothiazoles as Tyrosine kinase Inhibitors for Anti-cancer Activity	Board of College and University Development , Pune University, Pune	1, 76, 512/-	2 years



**AY 2016-17:**

Sr. No.	Name of Faculty	Project Title	Funding Agency	Amount	Duration
1.	Dr. Mayur A. Chordiya	Formulation, Development and Evaluation of Ketoconazole Microemulsion for Topical Drug Delivery	B. C. U. D.; S. P. P. U., Pune	INR 75,000	2 years
2.	Mrs. Nayana S. Baste	Formulation and Evaluation of Bioadhesive Dosage Forms Containing Calcium Channel Blockers for Buccal Administration	B. C. U. D.; S. P. P. U., Pune	INR 70,000	2 years
3.	Dr. V. S. Gulecha	Pharmacological Investigations of Ficus Glomerata in Experimental Animals	B. C. U. D.; S. P. P. U., Pune	90,000/-	2 years
4.	Mrs. Charulata T. Nemade	Phytochemical and Pharmacological Investigations of <u>Oxalis corniculata</u> L. in Experimental Animals	B. C. U. D.; S. P. P. U., Pune	60,000/-	2 years
5.	Mrs. Vandana R. Daga	Targeted Drug Delivery using Natural Polymer by Co-excipient Concept	B. C. U. D.; S. P. P. U., Pune	70,000/-	2 years
<b>Total Fund</b>				<b>INR 3,65,000/-</b>	

**AY 2015-16:**

Sr. No.	Name of Faculty	Project Title	Funding Agency	Amount	Duration
1	Dr. V. S. Gulecha	Pharmacological Investigations of Ficus Glomerata in Experimental Animals	B. C. U. D.; S. P. P. U., Pune	1,00,000/-	2 years
2	Mrs. Charulata T. Nemade	Phytochemical and Pharmacological Investigations of <u>Oxalis corniculata</u> L. in Experimental Animals	B. C. U. D.; S. P. P. U., Pune	60,000/-	2 years
3	Mrs. Vandana R. Daga	Targeted Drug Delivery using Natural Polymer by Co-excipient Concept	B. C. U. D.; S. P. P. U., Pune	1,00,000/-	2 years
<b>Total Fund</b>				<b>INR 260000/-</b>	

### 5.7.3. Consultancy (from Industry) (10)

NIL

However, the faculty has been involved in development of laboratories and pharmacy educations in the institutes in the remote part of Nashik District.

Dr. C. U. Upasani has been instrumental over the years in bringing up a college at Nashik too; GES's Dr. M. S. Gosavi College of Pharmacy, Nashik, and Sandip Foundation's College of Pharmacy, are the examples of the assistance provided.

The laboratories of our college constantly provide aid to those in need.

M/s M. B. Sugars, Malegaon, visits constantly to our laboratories for experimenting on their sugar and mannitol samples to be used as pharmaceutical aids.

The research centre at our college has got an international student, Mr. John Dike Ogbonna Nwabuze, a research scholar sponsored from TWAS fellowship, has carried his research work in the laboratories here. He was affiliated to Nsuka University, Nairobi.

### 5.7.4. Honorary Consultancy from Central/State/Local Government Organizations

NIL

### 5.7.5. Development activities (5)

Provide details:

- Product Development
- Research laboratories
- Instructional materials
- Working models/charts/monogram

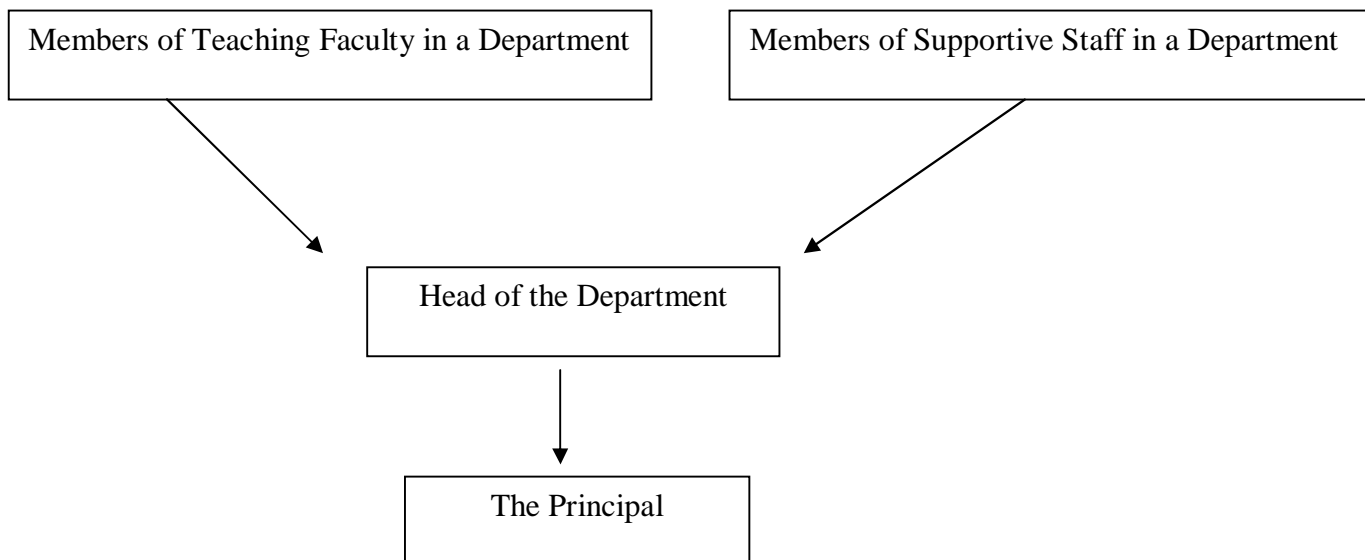
Sr. No.	Activity	Specifications	Particular
1	Product Development	Please restrict to any specific product that involves novelty, patentability, application at Institutional and social levels for which a documentary proof can be provided (this does not include routine thesis related formulations/ product of academic interest	A simple house-hold diagnostic kit is developed for testing the adulteration urea in milk. The kit is very economic and can be developed in homes too. The test is very easy and do not require any professional training, as well can be performed at home by any person.

2	Research laboratories	Any specific purpose laboratory developed for activities that are not routine (eg cell culture, Food testing etc. for which documentary proof can be provided)	<p>A Diabetic Neuropathy laboratory has been developed for testing the effectiveness of several plant extracts and synthesized compounds against relieving the neuropathic pain experienced by experimental models in case of induced diabetes.</p> <p>A microbial laboratory has been developed to test and preserve several cultures.</p>
3	Instructional materials	This includes the teaching learning material other than routine ppts, videos, youtube uploads and blogspots. Provide documentary Evidence.	<p>Hand-outs have been prepared to refer for the students of B. Pharm. First Year to note the observations during daily practicals. This eases out the initial apprehensions and increase the perception of the fresher students.</p>
			<p>Following Online Educational Resources (OERs) have been developed as learning packages available in public domain.</p> <p><a href="https://vchatpalliwar.wordpress.com/medicinal-chemistry">https://vchatpalliwar.wordpress.com/medicinal-chemistry</a></p> <p><a href="https://vchatpalliwar.wordpress.com/basics-of-biochemistry/">https://vchatpalliwar.wordpress.com/basics-of-biochemistry/</a></p> <p><a href="https://vchatpalliwar.wordpress.com/adrenergic-neurotransmission-and-affecting-drugs/">https://vchatpalliwar.wordpress.com/adrenergic-neurotransmission-and-affecting-drugs/</a></p> <p><a href="https://vchatpalliwar.wordpress.com/pharmaceutical-analysis/">https://vchatpalliwar.wordpress.com/pharmaceutical-analysis/</a></p> <p><a href="https://vchatpalliwar.wordpress.com/structures-of-neurotransmitters-and-compounds-modulating-neurotransmission/">https://vchatpalliwar.wordpress.com/structures-of-neurotransmitters-and-compounds-modulating-neurotransmission/</a></p> <p>Posters have been prepared by faculty to generate keen interest amongst fresher students regarding the crude drugs, their utility and related information. The posters are weekly displayed in dedicated corridors for the students to view.</p>

### **5. 8 Faculty Performance Appraisal and Development System (FPADS) (20)**

Every faculty member is supposed to fill a Performance appraisal form, exemplified below, at the end of every academic session and submit it through the hierarchy given below.

The forms are critically assessed and forwards with suggestions based on observations.



Every faculty member is supposed to fill a Performance appraisal form, exemplified below, at the end of every academic session and submit it through the hierarchy given below.

The forms are critically assessed and forwards with suggestions based on observations through following ladder.

- Members of Teaching Faculty in a Department and Members of Supportive Staff in a Department
- Head of the Department
- The Principal

The appraisal forms to be filled are the forms formulated and published by state government, our Trusts central Office, and the University, SPPU.

### **5. 9. Visiting/Adjunct Faculty (5)**

Adjunct faculty also includes experts from Industry, Research, Organizations/Universities and other Government Organizations. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct faculty for all the assessment years.

- Provision of visiting/adjunct faculty (2)
- Minimum 50 hours interaction in a year will result in 1 mark for that year; 1 marks x 3 years = 3 marks.

**CRITERION 6**  
**Facilities & Technical**  
**Support**

<b>CRITERION 6</b>	<b>Facilities</b>	<b>120</b>
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## **6. Facilities**

### **6.1. Availability of adequate, well-equipped classrooms to meet the curriculum requirements (20)**

*(Facilities for conducting theory classes)*

SNJB's Shriman Sureshdada Jain College of Pharmacy, Neminagar, Chandwad was established in 1999. Since beginning, the college has maintained high standards for infrastructure and whenever necessary, area was renovated to meet up current trends in educational facilities. A four floored (G+3) building of the Pharmacy college consist of class rooms, tutorial rooms and all other required departmental laboratories with a built up area of 4598.69 SQ.M.

The college has:

- Facilities as per requirements for conducting lectures and tutorials from first to final year students are adequate.
- Class rooms have capacity to accommodate upto 80 students; they are well ventilated and equipped with DLP, podium and uninterrupted power supply.
- Sufficient numbers of tutorial rooms are available with all the necessary facilities to conduct remedial classes for students having backlogs as well.
- A seminar hall and a Board room are available with a capacity of 80 and 30, respectively, to conduct seminars, guest lectures and workshops and staff meeting.
- Teaching aids – green boards, DLP projectors with white screen, equipped with LAN facility,
- and adequate number of tube lights, fans are available.
- Sessional and semester exams are conducted in the classrooms.

The details of the classrooms along with the facilities available are provided in table below:

<b>Class/ Tutorial</b>	<b>Room No.</b>	<b>Capacity (per room)</b>	<b>Dimensions with area (Sq.M.)</b>	<b>Rooms equipped with facility</b>
Lecture hall- 1	302	72	93.18	DLP with white screen, Green board, Podium, benches, Wi-Fi and LAN
Lecture hall-2	304	72	107.51	DLP with white screen, Green board, Podium, benches, Wi-Fi and LAN
Lecture hall-3	307	72	108.72	DLP with white screen, Green board, Podium, benches, Wi-Fi and LAN
Lecture hall-4	308	72	95.67	DLP with white screen, Green board, Podium, benches, Wi-Fi and LAN
Tutorial room	205	25	54	White board, Podium, benches and Wi-Fi
Board room /Seminar Hall	209	30	50.89	White board and Wi-Fi
Conference hall/ Auditorium	412	80	135.30	DLP with white screen, White board , Podium, chairs and Wi-Fi

## 6.2. Faculty Rooms

(10)

(Conducive sitting place)

### Availability of faculty rooms

- Adequate rooms and cabins are available to accommodate all faculty members.
- Faculty members have been provided with computer and internet facility.
- The staff rooms and staff cabins are well furnished.
- The faculty rooms are available in adequate number, and each faculty is provided with one cabin each. The cabins are provided with necessary infrastructure.
- Students counseling is done in the faculty rooms.

The details of the faculty rooms along with the facilities available are given in the table below.

Designation	Faculty rooms	Exclusive / Shared	Number for seating place in each room
HOD	403-A	Exclusive	3
HOD	403-B	Exclusive	3
HOD	403-C	Exclusive	3
HOD	109	Exclusive	3
Associate Professor	101	Exclusive	3
Associate Professor	409	Exclusive	3
Assistant Professor	410	Exclusive	3
Assistant Professor	204	Exclusive	3
Assistant Professor	102	Exclusive	3
Assistant Professor	107	Exclusive	3
Assistant Professor	103	Exclusive	3
Assistant Professor	309	Exclusive	3
Assistant Professor	201	Exclusive	3
Assistant Professor	405	Exclusive	3
Assistant Professor	409	Exclusive	3
Assistant Professor	301	Exclusive	3
Assistant Professor	104	Exclusive	3
Assistant Professor	402	Exclusive	3
Assistant Professor	401	Exclusive	3

### 6.3. Laboratories including preparation room (wherever applicable), instrument/machine room and computer labs along with equipment and relevant facilities (60)

*(Scientific Experiments Conducting/Computing facilities; availability, adequacy & effectiveness)*

Institution has well developed and fully equipped laboratories and advanced research laboratories for pharmacy students.

There are 10 laboratories (UG) namely

- Pharmaceutics Laboratory – I
- Pharmaceutics Laboratory - II
- Pharmacognosy Laboratory - I
- Pharmacognosy Laboratory - II
- Pharmacology Laboratory
- Pharmaceutical Chemistry Laboratory-I
- Pharmaceutical Chemistry Laboratory -II



- Pharmaceutical Analysis Laboratory
- Instrumentation Room
- Machine Room.

The Department of Pharmaceutics has a well built area equipped with machines and is facilitated with air conditioned Machine room generally useful for Pharmaceutical Industry. Equipments like Freeze dryer, Spray dryer, Fluidized Bed Processor, Tablet compression machine, Dissolution apparatus, and Stability chamber are available.

The Department of Pharmaceutical Chemistry has a air conditioned Centra Instrumentation Laboratory well equipped with sophisticated instruments like Double-beam UV-Spectrophotometer, HPLC, FTIR spectrophotometer, Potentiometer and Conductometer.

Lab Description	Batch Size	Availability of Manuals	Quality of Instruments	Safety Measures	Major Lab. Facilities	Remarks
Machine room	30	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Freeze dryer, Spray dryer, Fluidized bed processor, Tablet compression machine, Dissolution apparatus etc.	--
Instrument room	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with UV-Spectrophotometer, Polarimeter, pH meter, Conductometer, Colorimeter etc.	--
Pharmaceutics I	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Brookfield viscometer, Tap density tester, Tab friability tester, Disintegration test app. etc.	--
Pharmaceutics II	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Sieve shaker, Hot plate, Ultrasonicator, Dial type Hardness tester etc.	--

Pharmacognosy I	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Microscope with stage, Autoclave, charts etc.	--
Pharmacology	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Plethysmometer, Analgesiometer, Organ bath double unit, Electrical Sherrington recording drum etc.	--
Pharmacognosy II	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Microscope with stage & immersion lens, Digital Motic Microscope, Pharmacognosy charts, models etc.	--
Pharmaceutical Chemistry I	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Condenser reflux, Buchner filter, Arsenic limit test apparatus etc.	--
Pharmaceutical Chemistry II	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Melting point apparatus, Vacuum pump, Fume hood etc.	--
Pharmaceutical Analysis	24	Available	Working condition	Fire extinguisher, First aid kit, exhaust, safety glasses, gloves	Equipped with Refractometer, Karl Fischer apparatus, Flame photometer etc.	--

Note: Give a separate table for Instrument room and Machine room listing all the instruments/equipment present with their make and model, existence of SOPs and Log Books for individual equipment.

**LIST OF EQUIPMENTS IN MACHINE ROOM**

Sr. No.	Name of the Equipment	Make & Model	SOP	Log Book
1.	Freeze Dryer	Make-Labconco Model-Triad Benchtop 4000series	Available	Available
2.	Tablet Dissolution Tester	Make-Electrolab Model- TDT 08L	Available	Available
3.	Rotary Tablet Compression Machine	Make-Rimek (8 station) Model-MiniPress2D	Available	Available
4.	Spray Dryer	Make -Labultima Model-LU222	Available	Available
5.	Stability Oven	Make-Remi Model-6CHMGMP	Available	Available
6.	Planetary Mixer	Make-Kenwood Model- Lab model	Available	Available
7.	Hot Air Oven	Make-Labin Model-LI87D	Available	Available
8.	Fluid Bed Dryer	Make-Pam Glatt Model- Miniglatt Lab Model	Available	Available
9.	UV-Vis Spectrophotometer	Make-Jasco Model-V-630	Available	Available
10.	Digital Balance	Make-Shimadzu Model-BL220H	Available	Available
11.	PH meter digital	Make-Chemiline Model-CL180	Available	Available
12.	Tablet Coating Machine with Spray Gun	Make – Orchid Model- Lab model	Available	Available
13.	Double Cone Blender	Make – Orchid / Lab Model-1 Kg Cap with digital RPM	Available	Available
14.	Tablet Dissolution Tester	Make –Electrolab Model-TDT 06L	Available	Available

**LIST OF INSTRUMENT IN INSTRUMENTATION ROOM**

Sr. No.	Name of the Equipment	Make & Model	SOP	Log Book
1.	FTIR Spectrophotometer with spectra manager	Make- JASCO Model-4100	Available	Available
2.	HPLC	Make- JASCO Model-LC-NETII/ADC	Available	Available
3.	Digital pH meter	Make- Hanna Model-ME-962-P	Available	Available
4.	Micro centrifuge with Angle head	Make-Remi Model- RM-12C	Available	Available

5.	Quick Freezer	Make-Remi Model-RQF-170	Available	Available
6.	Cooling Centrifuge with voltage stabilizer	Make-Remi Model- C-24 BL	Available	Available
7.	Cyclo mixer	Make-Remi Model- CM-101	Available	Available
8.	Electrophoresis apparatus	Make-Bangalore geinie Model-1049	Available	Available
9.	Refrigerator	Make- Electrolux Model-ER-190	Available	Available
10.	Scientific Lab Balance	Make-Wensar Model-PGB 100	Available	Available

### Availability of computing facilities exclusively for the programme

The college has well equipped computer laboratory in terms of hardware and software facilities to use ICT (Information and communication technology) in pharmacy. The details of IT infrastructure are given as under:

Total number of Laptop and Computers available in working condition are 1+64 with CPU Specification details listed below:

Computer Type/Company	Number	Processor	RAM	Mother board
Zebion	60	Intel C2D	Hynix 2 Gb DDR II	Zebion G31
Assembled (Exam)	01	Intel Dual core 3.2 GHZ	Kingston 2 Gb DDR III	G 41 WV
Lenovo (Principal)	01	Core i3/390	3 Gb DDR III	Intel
Assembled (HVS)	01	Intel C2D	2 Gb DDR III	Intel chipset
Lenovo (Accounts)	01	Ci3-4 <sup>th</sup> gen.	2 Gb DDR III	Intel
Laptop	01	Intel C2D	2 Gb DDR	Intel

### Details of other IT Infrastructure

Sr. No.	Other IT Felicities	Number
1.	Projector/DLP	07
2.	Printers	04
3.	Scanners	01
4.	Photocopier/Xerox machine	03
5.	DVD writers	65
6.	UPS and Stabilizers	63

**Official Software's**

Sr. No.	Software details	Name of software
1	Basic Software	Window, MS office, Adobe, Quick Heal Total Security Antivirus
2	Data processing Software	Serosoft solutions Academia – ERP software Tally 9.0
3	Software for Instruments	Spray Dryer LU-222 UV Spectrophotometer – Spectra Manager Ver. 2.08A UV Spectrophotometer -2600 Ver.6.0 Motic Microscope – Motic Image Plus 2.0 ML TLC plate – TLC software

Our college provides comprehensive IT facilities, ensuring High Network Security provided by IT Department of Kantabai Bhavarlal Jain College of Engineering, Neminagar, Chandwad. CISCO-ISA 570 firewall system and Quick Heal prevents unauthorized access from outside through internet or through intranet. Students and staff have access to all the learning resources, database and websites except a few which do not come under preview of learning resources. The College has a structured LAN facility. Network is in a 3-tier architecture comprising of the Core, Distribution & Access. All the end users/workstations are connected through 10/100 Ethernet port I.P address manually, proxy internet server. In order to access the internet from laptop, mobile devices, the College provides campus wide seamless internet connectivity.

The faculty members are provided with computer for their use along with user ID and passwords so as to secure the information. In addition to this, all the sophisticated instruments are having computing facilities with the software installed in it so as to store the data and to access the data from the computer. The College has computer room with internet facilities. Students can access web resources such as Wikipedia and dictionary from these computers. In addition, our college has a DLP facility available for projecting power point presentations, videos etc. There is provision for uploading lecture notes, power point presentation, and videos on the ERP website which can be accessed by the student through the internet.

**6.4. Drug Museum (05)**

(Type & quality of collection in the museum with proper labeling and display)

A pharmaceutical drug museum consisting different pharmaceutical dosage forms.

The museum is figured with special attention to foreground the displayed products with extraordinary transparency and it is located in centre of the ground floor, visible to everyone.

A regular cleaning schedule is followed and the products are updated from time to time with latest formulations in the market. The museum is managed by two faculty members and two students from each year by coordination with housekeeping staff. Museum is composed of marketed and student's formulations which have been broadly classified as medicated, surgical and cosmetic formulations and it is for displaying of drugs from a variety of origins. The museum is also dedicated to the display of common laboratory equipments used in the field of pharmacy. The total area dedicated to these museums is approximately (150+95) 245 sq. ft. The list of the product showcase in the drug museum is given in the below Table:

<b>DRUGS MUSEUM (150 sq. ft.)</b>			
<b>ALOPATHIC SYSTEM</b>			
<b>Tablet</b>		<b>Capsules</b>	
Ciprofloxacin	PED-D	Pecelac fortz	Natolac FM
Diclofenac SR	Zolfresh-5	Codesoft EPO	Phexin
Amlokind 2.5mg	Vologard-250	Monosprin	Newgaba M75
Zodocef 200	Vinicor-XL	Metolar XR50	Merifol
<b>Solutions</b>		<b>Suspension and Emulsion</b>	
Cypon syrup	Bricanyl syrup	Metrogyl F	Ossopan D
Grilinctus BM	Brozedex	Gemcal grow	Spor dex
Vitcofol syrup	Pinkoo	Zentel	Kefflor
Ziprox 50 syrup	Ferofola	Gramogyl	Raricap L
<b>Semisolids</b>		<b>Surgicals</b>	
Clocip-B ointment	Soframine	Ethilon (Non Absorbable)	Prolene (Non Absorbable)
Betacilic ointment	Nitrofurazone cream	Benegut	Adhesive tape U.S.P
Clonate cream	Clob-GM cream	Metis	Vicryl (Absorbable)
<b>Parenterals</b>		<b>Eye drops</b>	
DNS 500 mL	Inj. Dexamethasone	Vasicon	Offlaxacin
D5 500 mL	Inj. Hydrocartisone	Ketlur	Gentamycin
Ringer-Lactate solution 500 mL	Inj. Cefrriaxone	Lobra D	Albucid
<b>Biological Products And Vaccines</b>			
Rotasiil Vaccine		Tuber vac (BCG)	
Easy Six Triple dose		Synflorix	
<b>HOMEOPATHIC SYSTEM</b>			
Alfalfa tonic (SBL Indus)		Kali muriaticum (Indo Germanis)	
Natum Muriaticur (SBL Indus)		Homeopathic dill (Baksons)	
Silica 6n (SBL Indus)		Barberis nulgaris (SBL Indus)	
<b>AYURVEDIC SYSTEM</b>			
Shankpushpi		Kanthika	Stonvil

Cariofilus	Hingastak churna	Cure on	
Eve care	Honitus	Hair tone	
Madhunash	Shwasari	Amrut goli	
<b>UNANI SYSTEM</b>			
Zinda talismat	Lukman-E-hayat tel	Digetive	Habb-E-Assab
<b>COSMETICS</b>			
Baby lotion	Safrogel	Deodrant spray	Colgate Paste
Shower gel	Ponds Talcum powder	Shampoo	Closeup Gel
<b>VETERINARY MEDICINES</b>			
Urazole (Metronidazole+Furazolidine+Loperamide)		Tikkil shampoo (Cypermethrin)	
Sulphadin Bolus (Sulphadimidine)		Vet cure (Amitraz)	
Lixen powder (Cephalexin)		Soap	
<b>PHARMACEUTICAL AND FOOD GRADE SUGAR AND OTHER PRODUCTS (MBs Sugar)</b>			
Compressible sugar	Sugar spheres	Icing sugar	Mannitol Manitab
Sucrose LR	Sugar globules	Tartaric acid spheres	Sugar cubes
Sucrose AR	MCC spheres	Mannitol spheres	Light brown sugar
<b>GLASSWARES</b>			
Condenser	Burette	HPLC column	Stalognometer
Gastrap	Funnel	Buckner funnel	Glass ampoule
Gooch crucible	Dry pistol	Soxhlet assembly	Mortar and pestle
Libig condenser	Diffusion cell	Gravity bottle	Bulb condenser

<b>CRUDE DRUGS MUSEUM (95 sq. ft.)</b>			
Agar	Ginger powder	Shatavari root	Cassia
Aloe dry juice	Glycerrhiza	Silk	Chirata
Ashwagandha	Guggul	Squill	Clove buds
Badi Pipali	Harda	Tragacanth	Digitalis leaves
Behra	Indian gum	Wool	Ginger dry
Benzoin	Isabgol seed	Acacia concinna	Kurchi bark
Capsicum fruit	Jalap	Aconite	Kutki
Caraway	Jute	Ajwain	Liquorice
Cinchona	Kalmegh	Amla	Nutmeg
Cinnamon	Lemon peel	Arjuna bark	Picorrhiza
Coco butter	Linseed	Asafoetida	Pyrethrum flower
Colophony	Nux vomica seeds	Ashoka bark	Quillia
Coriander	Orange peel	Bavachi Psoralea	Rhubarb
Diascorea	Pepper Black	Bhui amla	Sandal powder
Ephedra	Quassia	Capsicum powder	Sarpagandha
Fennel	Rauwolfia	Cascara	Shatavari
Kisselgurh	Senna leaves	Tragacanth	Shellac flakes
Wild cherry bark	Gokharu	Turmeric rhizome	Solanum
Isabgol husk	Ipecac	Vasaca pow	Strophanthus

**6.5. Medicinal Plant Garden (05)**

(Area, demarcation, temporary/permanent arrangement, planting of plants under the shade in demarcated areas, adequacy of the plants)

Sr. No.	Local name of the plant	Botanical name	Family	Number of plants	Chemical Constituents
1.	Naral (Coconut)	<i>Cocos nucifera</i>	Arecaceae	01	Phenols, tannins, vitamin B, nicotinic acid B3, vitamins B1, B6, and C, amino acids.
2.	Kanher	<i>Nerium indicum</i>	Apocyanaceae	02	Alkaloids- Neriodorin, Carabine, Scopoletin, Scopolin
3.	Chapha	<i>Plumeria alba</i>	Apocynacea	0 1	Volatile oil- n-nonanal , phenyl acetaldehyde , neryl acetone, $\alpha$ -cedrene , caryophyllene oxide and (E, E)- $\alpha$ -farnesene.
		<i>Plumeria rubra</i>	Apocynaceae	01	Volatile oil- geraniol , (E,E)-geranyl linalool, tricosane, (E)-nerolidol
4.	Shankhasur	<i>Caesalpinia pulcherrima</i>	Fabaceae	01	Volatile oil- D-apHELLandrene, oscimene, tannin gallic acid and saponin.
5.	Bottle palm	<i>Hyophorbe lagenicaulis</i>	Arecaceae	01	Flavonoids -quercetin, quercetin -7, 3', 4'-rimethoxy, and luteolin and spirostane, Cannigenin and Brisbagenin.
6.	Shatavari	<i>Asparagus racemosus</i>	Liliaceae	01	Steroidal Saponins- Shatavarin I,II,III and IV
7.	Tuntuni	<i>Tridax procumbens</i>	Asteraceae	05	Fumeric acid, $\beta$ -Sitostrol, Tannins
8.	Ashwagandha	<i>Withania somnifera</i>	Solanaceae	05	Alkaloids- Withanine, Somniferin, Withanolides
9.	Dudhi	<i>Euphorbia hirta</i>	Euphorbiaceae	05	Flavonoids- Quercitrin, myricitrin, euphorbin-A and B, Rutin
10.	Bhuiamala	<i>Phyllanthus niruri</i>	Phyllanthaceae	05	Flavonoids, alkaloids, terpenoids, lignans, polyphenols, tannins,



					coumarins and saponins,
11.	Sadaphuli	<i>Catharanthus alba</i>	Apocynaceae	01	Alkaloids- Vincristine, Vinblastine, Catharanthin, Vindolin
		<i>Catharanthus roseus</i>	Apocynaceae	01	Alkaloids- Vincristine, Vinblastine, Catharanthin, Vindolin, Rosinidin
12.	Adulsa	<i>Adhatoda vasica</i>	Acanthaceae	01	Alkaloids- Vascinie, Vascinone
13.	Korphad (Aloe)	<i>Aloe vera</i>	Liliaceae	01	Glycosides- Aloin, Barbaloin, Aloe-emodin
14.	Kadu Ratal (Dioscorea)	<i>Dioscorea deltoida</i>	Dioscoreaceae	01	Glycosides- Diosgenin, Smilagenin, epismilagenin
15.	Gulvel	<i>Tinospora cordifolia</i>	Menispermaceae	02	Alkaloids- Berberine Tinosporin Magnoflorine Glycosides- Tinocordiside
16.	Hattiphal	<i>Eulophia campestris</i> Wall	Orchideae	01	Flavonoids, reducing sugars, cyanogenic glycosides terpenoids, and tannins
17.	Putranjiva	<i>Putranjiva roxburghii</i> Wall.	Euphorbiaceae	01	Glycosides, saponins, triterpenes and flavonoids.
18.	Christmas tree	<i>Picea glauca</i>	Pinaceae	01	Essential oil- monoterpene hydrocarbons, $\alpha$ - and $\beta$ -pinene, $\alpha$ -terpineol.
19.	Ashoka (False Ashoka)	<a href="#"><i>Polyalthia longifolia</i></a>	Fabaceae	03	Diterpenoids, alkaloids, tannins, and mucilage. Aporphine and azafluorene alkaloids.
20.	Boganvel	<i>Bougainvillea glabra</i>	Nyctaginaceae	01	Phenolic- Gallic acid, Vanillic acid, Flavonoids- Rutin, Apigenin, Quercetin, Quercitrin.
21.	Durva	<i>Cynodon dactylon</i>	Poaceae	05	Arundoin, Furfural alcohol, Phytone, $\beta$ -ionone
22.	Gulmohar	<i>Delonix regia</i>	Fabaceae	02	$\beta$ -sitosterol, saponins, alkaloids, carotene, hydrocarbons phytotoxins and flavonoids.

23.	Mango tree	<i>Mangifera indica</i>	Anacardiaceae	02	Tannins, Starch, Vitamin A, Calcium
24.	Jamun	<i>Syzygium cumini</i>	Myrtaceae	03	Anthocyanins, glucoside, ellagic acid, isoquercetin, kaemferol and myrecetin. Alkaloid, jambosine, and glycoside jambolin
25.	Subabhul	<i>Leucaena leucocephala</i>	Fabaceae	03	Squalene, Phytol, tetratetracontane, Squalene.
26.	Umbar	<i>Ficus racemosa</i>	Moraceae	07	Tannins, Wax, saponin gluanol acetate, $\beta$ -Sitosterol, tetracyclic triterpene gluanol acetate
27.	Gangutai	<i>Lantana camara</i>	Verbenaceae	04	Oleanonic acid, lantadene A, lantadene B, $\beta$ -caryophyllene, $\gamma$ -curcumene, davanone.
28.	Sitaphal (Custard apple)	<i>Annona squamosa</i>	Annonaceae	09	Hingenamine, Anonaine, Catechin, $\beta$ -Sitostrol, Rutin
29.	Lemon	<i>Citrus limon</i>	Rutaceae	01	Volatile oil- Herperidin, Pectin,
30.	Badam	<i>Prunus dulcis/ amigdalus</i>	Rosaceae	01	Protein, emulsin, prunasin, daucosterol, and other sterols, Vitamins, amino acids
31.	Ranwange	<i>Solanum virginianum</i>	Solanaceae	01	Alkaloid- Solasodine, Solasonine, fatty and resinous substances, sterols.
32.	Bilayeet (Satyanashi)	<i>Argemone Mexicana</i>	Papaveraceae	01	Alkaloids,- Berberine, Jatrorrhizine, Muramine.
33.	Karanj	<i>Millettia pinnata</i>	Fabaceae	02	Sterols, Fatty acids and Flavonoids. Glabrachalcone Isopongachromene.
34.	Chitrak	<i>Plumbago zeylanica</i>	Plumbaginaceae	01	Naphtoquinone-plumbazeylanone, plumbagic acid, $\beta$ -sitosterol, lupeol, norcanelilline.

35.	Gavati Chaha (Lemon grass)	<i>Cymbopogon citratus</i>	Gramineae	01	Volatile oil-Citronella, Nerol, Heptenol
36.	Halad (Turmeric)	<i>Curcuma longa</i>	Zingiberaceae	01	Volatile oil-Curcuminoids, Camphor Camphene, Zingiberine
37.	Adrak (Ginger)	<i>Zingiber officinalis</i>	Zingiberaceae	01	Sesquiterpenes- $\beta$ -sesquiphellandrin, Gingerol
38.	Pudina	<i>Mentha spicata</i>	Lamiaceae	02	Essential oil- Carvone, Limonene.
39.	Tulas (Tulsi)	<i>Ocimum tenuiflorum</i>	Lamiaceae	01	Volatile oil- Methyl eugenol
		<i>Ocimum sanctum</i>	Lamiaceae	01	Volatile oil- Eugenol, Methyl Eugenol, Cavacrol, Caryophylline
40.	Banana	<i>Musa acuminata</i>	Musaceae	01	Carbohydrates, Pectin, Phenols.
41.	Gulab (Rose)	<i>Rosa</i>	Rosaceae	04	Volatile oil- Linalool, Geraniol, Nerol, Citronalol
42.	Rankanda	<i>Drimia indica</i>	Liliaceae	01	Cardiac glycosides, Tannins, Alkaloids.
43.	Alu	<i>Alocasia indica</i>	Araceae	01	Starch, Ca oxalate crystals,
44.	Avala (Amla)	<i>Phyllanthus emblica</i>	Phyllanthaceae	01	Tannins- Phyllembin, Vitamin- C
45.	Lajalu	<i>Mimosa pudica</i>	Mimoseae	01	Mimosine, Mucilage Carbohydrates, Fats.
46.	Dhotara	<i>Datura metel</i>	Solanaceae	01	Alkaloids- Hyoscyamine, Hyoscine, Atropine
		<i>Datura stramonium</i>	Olanaceae	02	Alkaloids- Scopolamine, Atropine
47.	Ratala (Sweet potato)	<i>Ipomea batatas</i>	Convolvulaceae	03	Anthocyanins, Pheolic compounds, Carbohydrates.
48.	Chandan	<i>Santalum album</i>	Santalaceae	01	Volatile oil- $\alpha$ and $\beta$ -santalol, $\alpha$ -and $\beta$ -antalenes
49.	Bitti	<i>Cascabela thevetia</i>	Apocynaceae	02	Cardiac glycosides, Cardenolides- <a href="#">thevetin A</a> and <a href="#">thevetin B</a>
50.	Kashid	<i>Peltophorum pterocarpum</i>	Fabaceae	02	Amino acids, terpenoids, phenolics,

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					flavonoids, alkaloids, steroids.
51.	Indian copper leaf (Kupi) Small grass	<i>Acalypha indica</i>	Euphorbiaceae	05	Carbohydrates, proteins, vitamins, and fats.
52.	Kadhipatta (Curry leaves)	<i>Murraya koenigii</i>	Rutaceae)	01	Alkaloids and Volatile oil- Caryophyllene, Linalool Sabinene, Carbazol alkaloids, Mukonine
53.	Neem	<i>Azadiracta indica</i>	Meliacea	02	Nimbin, Nimbidin, Nimbidol.

**6.6. Non Teaching Support (20)**

Sr. No.	Name of the Technical staff	Designation	Date of joining	Qualification		Other technical skills gained	Responsibility
				At Joining	Now		
1.	Mr. Jain Ramesh Daulatram	Accountant	4/08/1992	M.Com.		MS-CIT	Departmental
2.	Mr. Mahale Vinod Arvind	Clerk Cum Typist	1/11/2001	B. Com.	M.Lib.		Departmental
3.	Mr. Kadlag Kiran Shivajirao	Jr. Clerk	6/09/2004	BCS			Departmental
4.	Mr. Sancheti Dipak Megharaj	Jr. Clerk	1/01/2010	B.Com.			Departmental
5.	Mr. Thete Pramod Nivrutti	Store Clerk	5/12/2016	M.C.A.		MS-CIT	Departmental
6.	Mr. Thoke Vijay Madhukar	Library Assistant	7/03/2011 Engg. 1/07/2016 Pharm.	M. Lib.			Departmental
7.	Mr. Shinde Yogesh Pandharinath	Asst. Librarian	15/03/2017	M. Lib.			Departmental
8.	Mr. Khairnar Vaibhav Shivaji	Lab. Assistant	25/01/2002	B.Sc.		MS-CIT	Departmental
9.	Mr. Shinde Vinayak Jayaji	Lab. Assistant	2/06/2003	B.Sc.		MS-CIT	Departmental
10.	Mr. Katkade Ravindra Ramdas	Lab. Assistant	1/07/2003	B.Sc.		MS-CIT	Departmental
11.	Mrs. Gunjal Vaishali Mahesh	Lab. Assistant	8/08/2006	D. Pharm.	B.Sc.	MS-CIT	Departmental
12.	Mr. Sonawane Bhausahab Nivrutti	Peon	23/01/2002	H.S.C.	B.A.		Departmental

13.	Mr. Mhaske Sanjay Parvat	Peon	16/06/2003	S.S.C.			Departmental
14.	Mr. Oza Vijay Jaykisan	Peon	11/06/2003	H.S.C.	B.A.		Departmental
15.	Mr. Gangurde Subhash Ganpat	Peon	30/09/2004	B.Sc.			Departmental
16.	Mr. Gangurde Sopan Kisan	Peon	9/10/2004	H.S.C.			Departmental
17.	Mr. Pagar Balkrishna Sitaram	Peon	22/11/2005	H.S.C.	B.A.	MS-CIT	Departmental
18.	Mr. Jangada Sanjay Jawanmal	Peon	1/08/2006	B.Com			Departmental
19.	Mr. Gangurde Vishnu Ganpat	Peon	3/08/2006	H.S.C.	B.A.		Departmental
20.	Mr. Sonawane Mukesh Suresh	Peon	18/12/2008	S.S.C.			Departmental
21.	Mr. Ahire Macchindra Karbhari	Peon	13/12/2013	S.S.C.			Departmental
22.	Mrs. Jagtap Sunita Sanjay	Peon	4/09/2004	S.S.C.			Departmental
23.	Mrs. Pawar Seema Anna	Peon	22/09/2004	11 <sup>th</sup>			Departmental
24.	Mr. Kasar Kunal Kishor	Peon	6/02/2017	S.S.C.	S.Y.B.A.	MS-CIT	Departmental

**6.6.1. Availability of adequate and qualified technical supporting staff for program specific laboratories (10)***(Assessment based on the information provided in the preceding table)*

For fulfillment of the above criteria college has sufficient technical staff as per Pharmacy Council of India norms.

Sr. No	Name of the Technical staff	Designation	Date of joining	Qualification		Other Technical Skills Gained	Responsibility
				At Joining	Now		
1	Mr. Jain Ramesh Daulatram	Accountant	04/08/1992	M.Com.		MS-CIT	Departmental
2	Mr. Mahale Vinod Arvind	Clerk Cum Typist	01/11/2001	B. Com,	M. Lib.		Departmental
3	Mr. Kadlag Kiran Shivajirao	Jr. Clerk	06/09/2004	B.Sc.			Departmental
4	Mr. Sancheti Dipak Megharaj	Jr. Clerk	01/01/2010	B.Com.			Departmental
5	Mr. Thete Pramod Nivrutti	Store Clerk	05/12/2016	M.C.A		MS-CIT	Departmental
6	Mr. Thoke Vijay Madhukar	Library Assistant	07/03/2011 Engg. 01/07/2016 Pharm.	M. Lib.			Departmental
7	Mr. Shinde Yogesh Pandharinath	Asst. Librarian	15/03/2017	M. Lib.			Departmental
8	Mr. Khairnar Vaibhav Shivaji	Lab. Assistant	25/01/2002	B.Sc.		MS-CIT	Departmental
9	Mr. Shinde Vinayak Jayaji	Lab. Assistant	02/06/2003	B.Sc.		MS-CIT	Departmental
10	Mr. Katkade Ravindra Ramdas	Lab. Assistant	01/07/2003	B.Sc.		MS-CIT	Departmental
11	Mrs. Gunjal Vaishali Mahesh	Lab. Assistant	08/08/2006	D. Pharm.	B.Sc.	MS-CIT	Departmental

**6.6.2. Incentives, skill upgrade, and professional advancement (10)**

(Assessment based on the information provided in the preceding table)

For skill upgradation and professional advancement of the Non- Teaching staff, the college conducted various seminars, demonstrations and training sessions as follows:

<b>Sr. No.</b>	<b>Date</b>	<b>Name of the Technical Staff</b>	<b>Seminars/ Demonstrations / Training Sessions etc.</b>	<b>Title of Topic</b>
1.	26/09/2014	Mr. Vinod A. Mahale Mr. Khairnar Vaibhav S.	One day seminar at Sir Dr. MS Gosavi College of Pharmaceutical education and Research	Effective communication and Soft skills for better carrier.
2.	08/11/2014 to 09/11/2014	Mrs. Gunjal Vaishali Mahesh Mr. Khairnar Vaibhav S.	Two days State level Workshop at Loknete Dr. J.D. Pawar College of Pharmacy, Kalwan	Experimental techniques in Physical Pharmacy
3.	21/02/2015	Mrs. Gunjal Vaishali Mahesh Mr. Sonawane Mukesh S.	One day District level workshop at Arts, Commerce and Science college Chandwad	Disaster management training
4.	02/06/2015 to 03/06/2015	Mr. Vinod A. Mahale	Two days workshop at department of computer engineering, Late Sau Kantabai Bhavarlalji Jain College of Engineering, Chandwad.	Open Office
5.	21/01/2016 to 23/01/2016	Mr. Jain Ramesh Daulatram Mr. Pagar Balkrishna S. Mr. Oza Vijay Jaykisan	Three days workshop at R.G Sapkal College of Pharmacy, Nashik	Entrepreneurship Awareness camp
6.	07/02/2016	Mr. Shinde Vinayak J. Mr. Katkade Ravindra R. Mr. Sonawane Bhausahab N. Mr. Ahire Macchindra K..	Rahul Enterprises, Fire Fighting Equipment And Systems, 225, Mhada Colony, Roha, Raigad 402109	Fire Safety Demonstration and Basic Fire Fighting Training
7.	04/01/2017 to 05/01/2017	Mr. Jain Ramesh Daulatram Mr. Kadlag Kiran Shivajirao	Two days National level Seminar at Loknete Dr. J.D. Pawar College of Pharmacy, Kalwan	Awareness of NAAC/NBA Accreditation in Improving Quality education.



8.	05/03/2017	Mr. Khairnar Vaibhav S. Mr. Gangurde Subhash G. Mr. Sonawane Mukesh S. Mr. Mahale Vinod A.	Rahul Enterprises, Fire Fighting Equipment And Systems, 225, Mhada Colony, Roha, Raigad 402109	Fire Demonstration and Basic Fire Fighting Training
9.	05/01/2018 to 06/01/2018	Mr. Ravindra R. Katkade	Two days state level workshop at SNJBs SSDJ College of Pharmacy, Chandwad.	Current Scenario of CPCSEA & Promotion of Animal Research Welfare of Laboratory Animal Science
10.	05/01/2018 to 06/01/2018	Mr. Sopan K. Gangurde	Two days state level workshop at SNJBs SSDJ College of Pharmacy, Chandwad.	Current Scenario of CPCSEA & Promotion of Animal Research Welfare of Laboratory Animal Science
11.	16/01/2018 to 17/01/2018	Mr. Khairnar Vaibhav S. Mr. Gangurde Subhash G.	Two days national level workshop at Loknete Dr. J.D. Pawar College of Pharmacy, Kalwan	Potential applications of Fluidized bed processor in Pharmaceuticals.

**CRITERION 7**  
**Continuous Improvement**

<b>CRITERION 7</b>	<b>Continuous Improvement</b>	<b>75</b>
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## 7. Continuous Improvement (75)

### 7.1. Improvement in Success Index of Students without the backlog (15)

Items	LYG (2013-14)	LYGm1 (2012-13)	LYGm2 (2011-12)
Success index (from 4.2.1)	0.42	0.37	0.68

*SI= (Number of students who graduated from the program without backlog)/(Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry)*

Assessment shall be based on improvement trends in success indices. Marks are awarded accordingly.

### 7.2. Improvement in Placement and Higher Studies (15)

*Assessment is based on improvement in:*

*Placement: number, quality placement, core industry, pay packages etc.*

*Higher studies: performance in GPAT etc., and admissions in premier institutions*

Items	LYG (2013-14)	LYGm1 (2012-13)	LYGm2 (2011-12)
Placement index (from 4.7)	0.89	0.89	0.98

### 7.3. Improvement in the API of the Final Year Students (10)

*Academic Performance Index = ((Mean of Final Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Final Year/10)) x (successful students/number of students appeared in the examination)*

*Successful students are those who passed in all the final year courses*

Academic Performance Index	2016-17	2015-16	2014-15
Mean of CGPA or Percentage of all successful the students (X)	6.08	5.98	6.07
Total no. of successful students (Y)	56	50	58
Total no. of students appeared in the examination (Z)	57	57	58
API = X*Y/Z	<b>5.97</b>	<b>5.25</b>	<b>6.07</b>

#### 7.4. Improvement in the quality of students admitted to the program (15)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12<sup>th</sup> Standard and percentage marks of the lateral entry students.

Item		2016-17	2015-16	2014-15
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted	NA	NA	NA
	Opening Score/Rank	NA	NA	NA
	Closing Score/Rank	NA	NA	NA
State/University/ Level Entrance Examination/ Others admitted	No. of Students	59	60	59
	Opening Score/Rank	140 (Patil Apurva M.)	138 (Sandhan Varsha S.)	112 (Dabhade Chetana S.)
CET	Closing Score/Rank	46 (More Kishor N.)	48 (Jain Vrushabh P.)	42 (Patil Nilesh D.)
Name of the Entrance Examination for Lateral Entry Or Lateral Entry details D. Pharmacy	No. of Students admitted	17	15	08
	Opening Score/Rank	80.80%	78.60%	77.50%
	Closing Score/Rank	50.50%	60%	62.70%
Average CBSE/ HSC Board Result of admitted students		59.65%	59.95%	56.86%

**7.5. Actions taken based on the results of evaluation of each of the POs (20)**

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs attainment levels. Measures identified and implemented to improve POs attainment levels for the assessment years.

**POs Attainment Levels and Actions for improvement – 2016-2017**

POs	Target Level	Attainment Level	Observations

**PO1: Pharmacy Knowledge**

PO1	2.87	2.40	Medium

**Observation 1:** In the course of Ind. Pharmacy theory, students were not able to correlate lab scale manufacturing with their concepts of large scale manufacturing operations as it is not covered under university syllabus.

**Action 1:** To attain PO1 we arranged guest lecture of Mr. Shripad Gadhingalajkar, Deputy Manager, FDC Ltd., Mumbai for undergraduate students entitled “To understand different operations in manufacturing as per GMP and technology transfer. This lecture ensured the attainment of the said PO.

**Observation 2:** In the course of Ind. Pharmacy practical, students must have an idea about how the formulations prepared in the laboratory by them can correlate with the marketed products, as a reference standard. However, this comparative evaluation part was not included in the syllabus.

**Action 2:** The students were asked to do comparative evaluation of their developed formulations with marketed products by providing marketed samples from the college. This helped in the attainment of PO.

**Observation 3:** In the course of Pharmaceutical Jurisprudence it is expected that students must be aware about the guidelines related to scale up and post approval changes which was not included in the syllabus.

**Action 3:** The additional lecture of Dr. G.D.Basarkar was arranged on “SUPAC Guidelines” for the attainment of PO.

**Observation 4:** In the course of Natural Drug Technology theory the students are suppose to study the system biology approach for plant standardization. However without knowing basics related to Genetics it is very difficult for students to understand the concept properly.

**Action 4:** The guest lecture of Dr. M.T.Patil, a known botanist was arranged on “Genetics” for final year students. The lecture focused on the minute details related to the concept of genetics, its modern branches and utility in plant standardization and this lecture helped students in the attainment of PO.

**Observation 5:** In the course of Human Anatomy and Physiology practical students perform various experiments on blood like hemocytometry, hemoglobinometry, blood group identification etc and it is obvious that students must be aware about the working of blood bank.

**Action 5 :** Guest lecture of Dr. Dipak Rajput was arranged for first year students and this lecture emphasized on the working of blood bank.

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PO2: Planning Ability			
<b>PO2</b>	1.71	1.46	Medium

**Observation 1:** In the course of Pathophysiology and clinical biochemistry practical students has to assess various biological samples for estimation of biochemical like Glucose, Cholesterol, SGOT, SGPT, albumin etc. This estimation is to be performed using manual methods like colorimeter. However subject teacher Prof. Manoj Mahajan gave demonstration of semi automated Biochemistry analyzer and for this step wise planning of sample preparation and its estimation is required.

**Action 1:** Students in the practical are being guided by subject teacher to plan stepwise activity about the sample preparation for analysis by semiautomated Biochemistry analyzer. This ensures attainment of the said PO.

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PO3: Problem Analysis			
<b>PO3</b>	1.79	1.54	Medium

**Observation 1:** In the course of Human Anatomy and Physiology practical students perform various experiments on blood like hemocytometry, hemoglobinometry, blood group identification etc and it is obvious that students must be aware about the problems encountered in the blood bank while processing and storage of the blood components.

**Action 2 :** Guest lecture of Dr. Dipak Rajput was arranged for first year students and he explained the working of blood bank emphasizing on various problem faced during working and its practical solutions.

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PO4: Moern Tool Usage

<b>PO4</b>	1.74	1.48	Medium
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**Observation 1:** In the course of Pathophysiology and clinical biochemistry practicals students has to assess various biological samples for estimation of biochemicals like Glucose, Cholesterol, SGOT, SGPT, albumin etc. This estimation is to be performed using manual methods like colorimeter.

**Action 1:** Students in the practicals are being guided by subject teacher Prof. Manoj Mahajan to handle semiautomated Biochemistry analyzer which helps in getting results with high precision in minimum time. This ensures attainment of the said PO.

**Observation 2:** In the course of Human Anatomy and Physiology practicals students perform various experiments on blood like hemocytometry, hemoglobinometry, blood group identification etc and it is obvious that students must be aware about the working of blood bank.

**Action 2 :** Guest lecture of Dr. Dipak Rajput was arranged for first year students and this lecture he explained the usage of different modern instruments in the smooth working of the blood bank and its automation.

**Observation 3:** The drawing of chemical formulae and reaction schemes is a repetitive task for researcher and students for official reports, publications, and thesis. Such drawings can be created with several computers programs, such as CADD, ChemDraw, Chems sketch and etc. ChemDraw is a simple to use program that allows drawing intuitively and efficiently simple two dimensional representations of organic molecules.

**Action 3:** By looking to this, special lecture of subject incharge Prof. Hitesh Shahare explained and demonstrated for the awareness of ChemDraw software which helped the students to know

Chemical structures of drugs and intermediates, Chemical Reactions and their Mechanism, Interpretations, Conversion of IUPAC to structure and Conversion of structure to IUPAC

**Observation 4:** In the course of Natural Drug Technology theory the students are suppose to study the system biology approach for plant authentication. However without knowing

modern tools used in Genetics, it is very difficult for students to understand the concept properly.

**Action 4:** The guest lecture of Dr. M.T.Patil, a known botanist was arranged on “Genetics” for final year students. The lecture focused on the minute details related to the concept of genetics, and various modern tools used for plant authentication. This helped the final year students to know the usage of modern tools in genetics.

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PO5: Leadership skills			
<b>PO5</b>	1.48	1.30	Medium

**Observation 1:** Undergraduate students need some motivational lecture to enthuse confidence and courage to tackle professional and job pressure once they get into the professional career. It is also important for them for being successful in their endeavors.

**Action 1:** To meet this requirement we arrange guest lectures of renowned motivational speaker or show the videos to the students. This year we organize the guest lecture of Shri. Shyam Bacchav, MD of Corporsano Mediaid Ltd. in the month of September. He emphasized on the leadership quality like communication skill and Indian pharmaceutical marketing aspects. He even narrated his story about how his leadership qualities helped him to become successful entrepreneur.

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PO6 : Professional Identity			
<b>PO6</b>	1.81	1.55	Medium

**Observation 1:** In the course of Ind. Pharmacy theory, students must be aware about large scale manufacturing operations as it will help them in taking up challenges in future being a pharmacy professional.

**Action 1:** To attain PO1 we arranged guest lecture of Mr. Shripad Gadhingalajkar, Deputy Manager, FDC Ltd., Mumbai for undergraduate students who explained about the different operations in manufacturing as per GMP and technology transfer. This lecture ensured the attainment of the said PO.



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 PO7:Pharmaceutical Ethics

<b>PO7</b>	1.84	1.57	Medium
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**Observation 1:** It is crucial for the pharmacy students to know about the importance of observing ethical practices into the profession. University curriculum has Pharmaceutical jurisprudence as one of the subjects to final year students. However, we observed that the discussion with the expert in the field can help the students in clearing their concept and realize the importance of observing ethical practices in the profession.

**Action 1:** The guest lecture of Shri. Narendra Joshi, MD, Chaitanya Pharmaceutical, Ozhar was arranged to convey the importance of ethical practices in the profession of pharmacy. He explained each and every aspect of pharmaceutical manufacturing along with the importance of documentation in every step. It is rightly said in GMP that “if it is not documented means it is not done”.

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 PO8: Communication

<b>PO8</b>	1.69	1.46	Medium
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**Observation 1:** In the course of Pharmacology V practical university curriculum has mentioned study of various cases to know about the disease and its treatment. For doing this even students must be aware about how to take cases and should have proper communication with the patients.

**Action 1:** Dr. Jangada, the medical superintendent of R.P. Chordiya hospital permitted our final year students for hospital visit and one to one interaction with the admitted patients of the hospital. This activity helped our students to understand the correct use of medicine in the clinical practice and also helped in improving their communication skill by interacting with number of patients.

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 PO9 :Pharmacist and Society

<b>PO9</b>	1.61	1.40	Medium
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**Observation 1:** It is obvious that the undergraduate students in pharmacy must be aware about their role and responsibility towards society. However, the university curriculum could not address this issue as none of the subject in their course deals with the interaction of these

budding pharmacists with the society. The students awareness about their social responsibility was observed to be weak.

**Action 1:** We at our college have a university approved NSS unit. Under the banner of NSS, we organize various social awareness rallies, street plays and health surveys. This activity has been made a routine work of every year which helps our students to understand the health need of the society and realize their role and responsibility towards it. This ensured that our undergraduate students are socially active.

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PO10 :Environment and Sustainability

<b>PO10</b>	1.48	1.28	Medium
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**Observation 1:** There is a course on environmental science (theory) to the undergraduate students wherein students are suppose to understand the concepts regarding environmental protection and conservation of the ecosystem and natural resources. However it has been observed that unless and until students are involved into fieldwork the theoretical concepts of environmental science does not make a significant impact.

**Action 1:** We have made a practice of observing month of July as a month of tree plantation in and around our college. In this pursuit our undergraduate students have planted trees like Neem, Tamarind, Amla, Mango, Banyan etc on the barren hill behind the college and all these trees are beinmg well taken care of by the students. This activity actually helped us to enthuse the importance of environmental protection into our undergraduate students.

**Observation 2:** It is social responsibility of the every citizen of the country to maintain cleanliness in the surroundings. Being students of professional course this activity is mostly neglected giving hectic schedule reason and it is quite acceptable. However we were interested in making students socially responsible and law abiding citizens of the country.

**Action 2:** We under the banner of NSS organize the cleanliness drive in the college campus and area adjoining the campus along with the Renuka mata temple as well as at the adopted village in Chandwad tehsils. Our students went to the zilha parishad school and high schools to convey the message of importance of hygiene and cleanliness in maintaining the good health of a human being in day today life.

## PO11 : Life Long Learning

<b>PO11</b>	2.5	2.1	Medium
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**Observation 1:** In the course of Pharmacology V practical university curriculum has mentioned study of various cases to know about the disease and its treatment. For doing this even students must be aware about how to take cases and should have proper communication with the patients.

**Action 1 :** Dr. Jangada, the medical superitendant of R.P. Chordiya hospital permitted our final year students for hospital visit and one to one interaction with the admitted patients of the hospital. This activity helped our students to understand the correct use of medicine in the clinical practice .

**POs Attainment Levels and Actions for improvement – 2015-2016:**

POs	Target Level	Attainment Level	Observations
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**PO1: Pharmacy Knowledge**

<b>PO1</b>	<b>2.83</b>	<b>2.85</b>	<b>High</b>
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No action required as target was achieved.

**PO2: Planning ability**

<b>PO1</b>	<b>1.58</b>	<b>1.71</b>	<b>High</b>
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No action required as target was achieved.

**PO3: Problem Analysis**

<b>PO1</b>	<b>1.65</b>	<b>1.78</b>	<b>High</b>
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No action required as target was achieved.

**PO4: Modern Tool Usage**

<b>PO1</b>	<b>1.65</b>	<b>1.77</b>	<b>High</b>
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No action required as target was achieved.

**PO5: Leadership Skill**

<b>PO1</b>	<b>1.31</b>	<b>1.48</b>	<b>High</b>
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No action required as target was achieved.

**PO6: Professional Identity**

<b>PO1</b>	<b>1.77</b>	<b>1.88</b>	<b>High</b>
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No action required as target was achieved.

**PO7: Pharmaceutical Ethics**

<b>PO1</b>	<b>1.67</b>	<b>1.83</b>	<b>High</b>
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No action required as target was achieved.

**PO8: Communication**

<b>PO1</b>	<b>1.65</b>	<b>1.821</b>	<b>High</b>
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No action required as target was achieved.

**PO9: The Pharmacist and society**

<b>PO1</b>	<b>1.51</b>	<b>1.64</b>	<b>High</b>
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No action required as target was achieved.

**PO10: Environment and Sustainability**

<b>PO1</b>	<b>1.32</b>	<b>1.52</b>	<b>High</b>
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No action required as target was achieved.

**PO11: Life Long Learning**

<b>PO1</b>	<b>2.33</b>	<b>2.37</b>	<b>High</b>
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No action required as target was achieved.

**POs Attainment Levels and Actions for improvement – 2014-2015:**

<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
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**PO1: Pharmacy Knowledge**

<b>PO1</b>	<b>2.84</b>	<b>2.85</b>	<b>High</b>
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No action required as target was achieved.

**PO2: Planning ability**

<b>PO1</b>	<b>1.46</b>	<b>1.56</b>	<b>High</b>
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No action required as target was achieved.

**PO3: Problem Analysis**

<b>PO1</b>	<b>1.50</b>	<b>1.52</b>	<b>High</b>
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No action required as target was achieved.

**PO4: Modern Tool Usage**

<b>PO1</b>	<b>1.36</b>	<b>1.39</b>	<b>High</b>
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No action required as target was achieved.

**PO5: Leadership Skill**

<b>PO1</b>	<b>1.23</b>	<b>1.34</b>	<b>High</b>
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No action required as target was achieved.

**PO6: Professional Identity**

<b>PO1</b>	<b>1.66</b>	<b>1.72</b>	<b>High</b>
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No action required as target was achieved.

**PO7: Pharmaceutical Ethics**

<b>PO1</b>	<b>1.62</b>	<b>1.68</b>	<b>High</b>
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No action required as target was achieved.

**PO8: Communication**

<b>PO1</b>	<b>1.69</b>	<b>1.75</b>	<b>High</b>
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No action required as target was achieved.

**PO9: The Pharmacist and society**

<b>PO1</b>	<b>1.50</b>	<b>1.54</b>	<b>High</b>
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No action required as target was achieved.

**PO10: Environment and Sustainability**

<b>PO1</b>	<b>1.13</b>	<b>1.24</b>	<b>High</b>
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No action required as target was achieved.

**PO11: Life Long Learning**

<b>PO1</b>	<b>2.34</b>	<b>2.33</b>	<b>High</b>
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No action required as target was achieved.

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## **Institute Level Criteria**

## **CRITERION 8**

### **Student Support Systems**



<b>CRITERION 8</b>	<b>Student Support System</b>	<b>50</b>
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**8.1. Mentoring system to help at individual levels****(5)**

*Type of mentoring: Professional guidance / career advancement / course work specific / laboratory specific / all-round development Number of faculty mentors: Number of students per mentor: Frequency of meeting: (Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)*

Student - Guardian Program was initiated by allotting few students to each faculty member to act as their guardian throughout the academic year.

Students counselling is conducted periodically and it is effectively carried out through mentoring system. Each faculty member plays the role of mentor and each mentor is assigned with a small group of 3 - 4 students from each class, total number of students is 14 to 16. Mentor meetings with students are conducted fortnightly to counsel the students, address their grievances and to motivate them.

**Objectives of Mentoring Program:**

- To interact with students about their need, problems, difficulties and address them effectively.
- To mentor students to participate in various technical and cultural events for their overall development.
- The mentor regularly observes the overall growth of student and provides counseling whenever required.

**Issues to be discussed with the students by mentor:**

- Personal study time table
- Attendance in the classes and practical
- Economic status
- Hostel / Food issues
- Confidence level
- Participation in co-curricular and extra-curricular activities
- Personal, familial, social and academic issues.

**Efficacy of the system:**

- The system develops an interaction among the teachers, students and parents.
- The system helps to improve the academic performance of the students.
- The system provides scope for healthy, positive and stress free state of mind.
- The mentors meet the students periodically and monitor their performance and their activities.
- Guidance regarding the lagging issues is provided.

**8.2. Feedback analysis and reward /corrective measures taken, if any (10)**

*Feedback collected for all courses: YES/NO Specify the feedback collection process: Percentage of students who participated: Specify the feedback analysis process: Basis of reward / corrective measures, if any: Number of corrective actions taken in the last three years: (The institution needs to design an effective feedback questionnaire. It needs to justify that the feedback mechanism developed by the institution really helps to evaluate teaching, and finally, contributes to the quality of teaching and ensure attainment of set levels for each PO)*

The feedback from the students (80-90 % participants) for all the courses is collected every year. Feedback collection mechanism is well organized system in the college. The system of feedback collection is manual as well as online. A standard feedback questionnaire is distributed to the students at the end of the university examination of every year course wise. Students are also encouraged to share their views and suggestion with the mentor to whom they are assigned. If all else fails, students have an easy access to the Principal, wherein they can directly go and complain/ share their views with him.

**Course Feedback Proforma:**

Course Title:                      Course Code:                      Year /Semester:

**1. THE DESIGN OF THE COURSE**

**i.** The course contents met with your expectations:

Yes                       To Some Extent                       No

**ii.** The lecture sequence was well planned

Yes                       To Some Extent                       No

**iii.** The contents were illustrated with examples or case studies

Yes                       To Some Extent                       No

**iv.** The course exposed you to new knowledge and practices

Yes       To Some Extent       No

## 2. THE CONDUCT OF THE COURSE

i. The lectures were clear and easy to understand

Yes       To Some Extent       No

ii. The teaching aids were effectively used

Yes       To Some Extent       No

iii. The course material handed out was adequate

Yes       To Some Extent       No

iv. Were the objectives of the course met

Yes       To Some Extent       No

v. Please give overall rating of the course

90-100%     80-90%       70-80%     60-50%     Below 50%

vi. Any suggestions to improve the course:

The collected feedback is then scrutinized. All the parameters mentioned in the feedback are analyzed. The ability of teaching with respect to each parameter is analyzed. The comments given by the students are communicated to the respective faculty members along with their feedback levels to know their strengths and weaknesses and to enhance their teaching skills.

### **Basis of reward / corrective measures, if any:**

- The feedback report is sent to the Head of the institution to review for necessary measures.
- Rewards are given to the faculties with good feedback by appreciation in staff meetings.
- Faculty handling subjects are counseled to enhance their teaching and overcome their weakness for further improvement.
- The faculty is instructed to refer more reference books in the library to enhance their knowledge in the specific subject.
- Faculties are instructed to attend the faculty development programs of their respective subjects.

### 8.3. Feedback on facilities

(5)

*(Assessment is based on feedback collection, analysis and corrective action taken in respect of library, computing facilities, canteen, sports etc.)*

A standard procedure is followed for feedback on facilities provided in the institution. Feedback is collected from the current students and alumni of the institution on the facilities available such library, internet and computing facilities, canteen, sports, laboratory, class room infrastructure, and hostel. Standard facility wise feedback form with questionnaire and space for descriptive suggestion is collected from the current students and alumni online once in a year. The feedback given by the students is consolidated and analyzed.

The format for student feedback on facilities consists of following questions:

1. How do you rate the Library Facilities provided by the institution?
2. How do rate the Internet and Computing facility provided by the institution?
3. How do you rate the Canteen facilities provided in the Campus?
4. How do you rate the Sports facilities provided by the Institution?
5. How do you rate the Laboratory facilities at the institution?
6. How do you rate the class room Infrastructure?
7. Are you satisfied with the Hostel Facility provided by the institution?
8. Please give overall rating for the facilities provided by the institute.
9. Any suggestions to improve the Facilities provided by the institution?

**Rating scale** used is as follows:

5 = Excellent 4 = Very good 3 = Good 4 = Satisfactory 5 = Below average

#### **Development on Facilities:**

Following developments were made subsequently on the various facilities:

#### **Library:**

1. ERP system was implemented in the library. Most of the library activities are made with ERP
2. Bar-coding was done to all the books available in the library
3. Book ends were purchased and used for separation of books in the cupboard
4. DELNET facility is available in the library.

5. National Digital Library of India (NDL India) is subscribed by the institute where students and faculty members have created log-ins for accessing various learning resources with a single window search facility.

#### **Sports:**

1. Various sports facilities made available for the students which includes badminton poles adjustable, volley ball polls adjustable, referee stand, dumbbell stand, leather and tennis cricket bat ball, volley ball, shuttle box, table tennis and badminton net etc.
2. Multi gym four station facility is made available in the gym room of the institute

#### **Computing facilities:**

1. The Institute has Cisco 1900 series firewall system for network security.
2. The Institute has Linux Proxy Server for user information security purpose with provision of user name and password & entire log is maintained on the server.
3. The Institute has individual email domain 'snjb.org'.
4. The computers in the laboratories, staffrooms and library are networked which provide internet access to all the students and the staff.
5. Computer systems are available for staff in their respective labs with internet access for preparation of lecture contents and presentation.
6. All the classrooms and seminar hall are equipped with LCD projectors for visual presentation for effective teaching learning process.
7. Amazon cloud based enterprise resource planning (ERP) software for automation of academic and non academic processes is used in the Institute to maintain and analyze the data related to various processes of Institute.
8. The Institute upgrades the computer systems with recent configurations as per requirements.

#### **8.4. Self Learning**

(5)

*(Specify the facilities, materials and scope for self-learning / learning beyond syllabus and creation of facilities for self-learning / learning beyond syllabus).*

- Computer laboratory is well equipped with internet facility available for the students. Literature search is being attempted. Downloads are also permitted.
- Many e- journals are subscribed through DELNET and made available to the students at the college library to help them develop the habit of self-learning and learning beyond syllabus.

- The college is enrolled as an Institutional Member of Jayakar Knowledge Research Centre (formerly Jayakar Library) of Savitribai Phule Pune University, Pune to avail the library facilities.
- College library with sufficient number of titles on core and application areas, and technology awareness journals are available for students during college working hours. In addition, faculty makes special efforts to design library assignments.
- The library has the excellent collection of reference books, official compendia, book series, encyclopedias and text books on technical subjects along with previous question papers which immensely facilitates the self learning by the students.
- The college library has also collection of previous year's project report, thesis for reference by the students.
- The library also has collection of few non technical books like autobiographies, novels, drama etc. for facilitating the self learning beyond the syllabus.
- Students are generally encouraged to attend seminars/ workshops conducted in /outside college.

#### **8.5. Career Guidance, Training, Placement**

**(10)**

*(Specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/internship/placement, etc.)*

#### **Facility**

The Institution has a Training and Placement Cell under the supervision of Training and Placement In charge Dr. G. D. Basarkar. The cell provides regular guidance and mentoring to the students. The cell organizes career guidance lectures and seminars to help and inspire students to select the right career. These seminars make students aware of the entrance examinations to enter a range of fields. They are informed and updated about the format and design of the examination; the eligibility criteria; and the frequency/duration/syllabus components and other features of different examinations for further studies.

Career counseling is carried out by arranging guest lectures on various topics to guide students to select career and generate interest in different fields of course.

The institution has Training and Placement cell which provides services to the students for their placements. The institution helps students to identify their field of interest for their

careers, and higher education. Seminars and lectures are conducted regularly to identify job opportunities for the students and become aware of the competitive examinations for entrance into field of interest.

#### **Functions and Responsibilities of Training and Placement Cell:**

- To arrange industrial visits/training for the students
- The main objective of the cell is to train and motivate the students to become job creators rather than job seekers.
- To arrange guest lectures/seminars by resource persons with industrial and research background.
- To make communication with industries/alumni for job opportunities.
- To establish linkage with the various industries and laboratories to get associated with and to pursue collaborative research projects.

#### **Facility Management:**

- The students are groomed through lectures on aspects of pre-requisites for facing interviews such as preparing an effective prototype resume and effective measures and presentation skills to face an interview.
- The students are also counseled for taking up higher studies.
- Institute organizes industrial visits to various pharmaceutical industries for getting an opportunity for students to understand the working culture of the industry.
- As a part of curriculum, third year B. Pharm. students undertake one month industrial training.

**Various lectures, programs arranged for career and higher studies counseling, campus placement support etc.**

Lecture/Program	Year	Number of students attended	Name of the agencies involved with contact details
Career and higher studies counselling	2014-2015	109	Mr. Amit Gore Akshay Study Abroad D'souza Colony, Off. College Road, Nashik-422005 Mob. No.: 9850142665
	2015-2016	21	M/s Spectrum Academy Vitthal Park, Near Ashok Stambh, Gangapur Road, Nashik – 422002 Ph. No.: 0253-2318884
	2015-2016	30	Dr. Vijay Chandankar Research Scientist Glenmark Pharmaceuticals Ltd., Sinnar, Nashik
	2016-2017	65	Dr. Anwar Shaikh Professor, Allana College of Pharmacy, Pune
	2017-2018	70	Dr. Anwar Shaikh Professor, Allana College of Pharmacy, Pune
Softskill development	2014-2015	30	M/s. ITM Group of Institutions BSEL Tech Park, Opposite Vashi Railway Station, Vashi, Navi Mumbai – 400703 Tel.: 022 27813900

### 8.6. Entrepreneurship Cell

(5)

*(Describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation)*

Entrepreneurship cell is attached with the training and placement cell of the institute. Entrepreneurship Development Cell aims to improve and generate a culture of innovation and development of entrepreneurial spirit amongst the students and budding entrepreneurs and start their own enterprise. It also attempts to train and equip them with the knowledge and resources they need to build successful business. The composition of Entrepreneurship Development Cell is as follows:



Sr. No.	Name	Designation
1.	Dr. G. D. Basarkar	Chairman
2.	Dr. V. A. Chatpalliwar	Member
3.	Dr. A. B. Upaganlawar	Member
4.	Dr. A. S. Mundada	Member
5.	Dr. S. B. Patil	Secretary

### Objectives:

- To motivate and encourage the students towards entrepreneurship.
- To support the continuing education needs of personnel in areas of technology and management.
- To act as a knowledge hub for entrepreneurship development.
- Regular interaction with different entrepreneurs

### Some of the Entrepreneurs developed from the Institute

Sr. No.	Name of the student	Type	Name of Enterprise
1.	Bhandari Toral Satish	Retail Medical Store	Own Medical Shop at Pachora
2.	Chopada Vijay Sunil	Wholesale Medical and Veterinary Business	Vijay Distributors, Manmad
3.	Dhalawat Jigar Nandlal	Pharma Industry	Dansons Pharma Chem., GIDC, Surat
4.	Lunawat Pratik Pravinchand	Retail Medical Store	Own Medical Shop, Nashik
5.	Magaji Pravin Kailash	Retail Medical Store	Own Medical Shop, Nashik
6.	Patil Rutuja Appasaheb	Retail Medical Store, Thane	Own Medical Shop
7.	Mahale Kanchan Babanrao	Running tuition classes at Niphad	-
8.	Jain Mayur Mahendra	Retail Medical Store	Own Medical Shop, Khetia, MP
9.	Pagariya Darshan Sunil	Retail Medical Store	Own Medical Shop, Dharangaon, Jalgaon
10.	Pareek Yashomati Rajendra	Choreographer	Dance Academy at Aurangabad
11.	Prajapat Om Prakash	Manufacturing and Marketing	Mineral water business at Malegaon

12.	Jignesh Patel	ChemFine Enterprise	Lab reagents, glassware's etc.
13.	Chaudhari Devendra Vinod	Retail Medical Store	Medical shop at Dhule
14.	Dediya Gunjan Laherchand	Retail Medical Shop	Retail Medical Shop
15.	Gangurde Jayashri Ashok	Retail Medical Shop	Retail Medical Shop
16.	Bhosale Ganesh Ashok	Retail Medical Shop	Ganesh Medical, Chandwad
17.	Wasulkar Prashant	Wholesale Distributor	Param Distributors, Chandwad

### 8.7. Co-curricular and Extra-curricular Activities (10)

*(Specify the co-curricular and extra-curricular activities)*

#### Co-curricular activities

- Institution encourages the students for their participation in conference/seminar/oral and poster presentation at regional, state and national level.
- Institution has arranged various guest lecturers of industry people to enrich the knowledge.
- Career guidance lecture and all necessary information are provided for the competitive examination preparation.
- Students are involved in the innovative research project competition like Avishkar organized by Savitribai Phule Pune University to satisfy their needs and to boost their talent and self-esteem.
- Computer with internet facility is provided so that students can be in constant touch with the recent advances in the pharmacy field.

#### Extra-curricular activities

The institution motivates and inspires the students for participation in sports (indoor and outdoor games), cultural and extracurricular activities to gear up leadership qualities, team spirit and time management. The various indoor and outdoor games include football, cricket, badminton, table tennis, carom, chess, volley ball, kabbadi etc. Students participate in various sports competitions at regional, zonal and state levels.

The institution provides an ideal platform to arrange various cultural events to develop latent talent of the students. Annual social gathering is arranged every year and students perform various cultural activities like dance, singing, monoact play, rangoli etc. The students are also encouraged to participate in activities like blood donation, tree plantation, cleaning campaign etc. to promote social responsibility.

The students participating in sports and cultural events are allowed relaxation from attending classes provided they fulfill the minimum university required attendance norms. Academic leave is granted for student's participation at various events of sports and cultural activities. Students participate in activities of National Pharmacy Week (NPW) organized and hosted by different pharmacy institutions in Nashik district and Indian Pharmaceutical Association (IPA), Nashik branch.

The facilities available for sports and cultural activities are given below:

Sr. No.	Sports activities	Available Facility	Cultural activities	Facility
1.	Cricket	Ground	Dance, Singing, Mono act etc.	<b>Auditorium hall, Maxheal hall</b>
2.	Carom	4 sets		
3.	Chess	10 Chess boards		
4.	Table tennis	2 Tables		
5.	Gymnasium	150 kg Weight plates, rods, bench etc.		
6.	Volley ball	2 Courts		
7.	Kabbadi	Ground		

**Average number of sports and cultural activities/competitions organised at the institution level per year:**

Year	Name of the activity	Date
2013-2014	Skit (NPW-2013)	11/12/2013
	Scientific Presentation (NPW-2013)	
2014-2015	Group Discussion (NPW-2014)	01/01/2015
	Pharmaceutical Model Making (NPW-2014)	
	Table Tennis (Ladies and Staff) (NPW-2014)	
2015-2016	Singing (NPW-2015)	21/01/2016
	Pharmaceutical Model Making (NPW-2015)	
2016-2017	Inter College Chess Tournament (M/F), Savitribai Phule Pune University under Nashik zone local sports committee	01/09/2016 - 03/09/2016
	Table Tennis (Girl's) (NPW-2016)	04/01/2017
	Singing (NPW-2016)	
2017 - 2018	Table tennis (NPW-2017)	23/01/2018
	Scientific Innovative advertisement (NPW-2017)	

**National Service Scheme (NSS)**

Various activities and special camp conducted during academic year **2017-18** under National Service Scheme of Savitribai Phule Pune University, Pune

Sr. No.	Date	Name of activity	Program conducted
1.	21/06/2017	International Yoga Day	Demonstration of Yoga and Pranayams by Instructor to all faculty members, non teaching staff, students and NSS volunteers
2.	01/07/2017	Tree Plantation	Tree Plantation was conducted at college surrounding
3.	29/07/2017	Voters awareness	NSS volunteers and students were aware regarding voting And guided regarding same by Dr. C. D. Upasani., Principal SSDJ COP Chandwad Voters registration forms were filled up and submitted to the concerned authority

4.	01/08/2017 to 15/08/2017	Swachha Swasth Bharat Pandharwada	Internal college and surrounding was cleaned by students and NSS volunteers. Rallies were organized to aware public regarding cleanliness. Rally was organized in adopted village to aware public regarding cleanliness. All NSS volunteers and students were guided regarding same by Dr. C. D. Upasani., Principal SSDJ COP Chandwad
5.	07/09/2017	Blood Donation Camp	Blood Donation Camp was organized at Engineering college, Chandwad 118 bottles of blood were collected
6.	25/09/2017	World Pharmacist Day	Visited the pharmacy of working pharmacist and admire their work by felicitation
7.	23/02/2018	Marathi Bhasha day	Conducted a program by singing song on the occasion of the Marathi bhasha day
8.	11/01/2018 to 17/01/2018	Special camp at adopted village	Various lectures, Cleanliness, Awareness regarding health, Health awareness campaign, Sports, Group discussion etc.

Various activities and special camp conducted during academic year **2016-17** under National Service Scheme of Savitribai Phule Pune University, Pune

Sr. No.	Date	Name of activity	Program conducted
1.	21/06/2016	International Yoga Day	Demonstration of Yoga and Pranayams by Instructor to all faculty members, non teaching staff, students and NSS volunteers
2.	01/07/2016	Tree Plantation	Tree Plantation was conducted at college surrounding
3.	01/09/2016	Dengue Awareness	Rally was conducted for awareness regarding Dengue
4.	25/09/2016	Swachha Bharat Abhiyan	Internal college and surrounding was cleaned by students and NSS volunteers.
5.	25/09/2016	Voters awareness	Rally was conducted for awareness regarding voting and registration as voter
6.	10/10/2016	Employment	Employment registration camp was organised for

		Registration Camp	the students
7.	18/10/2016	Lecture on Palliative Care	Lecture on Palliative Care was organized for the student
8.	10/01/2017 to 16/01/2017	Special residential camp at adopted village	Various lectures, Cleanliness, Awareness regarding health, Health awareness campaign, Sports, Group discussion etc.

### Board of Student Development

Sr. No.	Date	Name of activity	Program conducted
1.	22/02/2017	Student Personality Development	One day seminar on "Encouragement, Empowering and Personality Development for Girl Students"
2.	15/10/2017	Vachan Prerana Din	In the remembrance of Ex President Dr. A. P. J. Abdul Kalam
3.	16/02/2018	Student Personality Development	One day seminar on "Student Personality Development"
4.	16/02/2018	Pariksha Pe Charcha	Online program by Prime Minister Mr. Narendra Modi for students
5.	27/02/2018	Marathi Bhasha Gaurav Din	In the remembrance of Kusumagraj V. V. Shirwadkar

## **CRITERION 9**

# **Governance, Institutional Support and Financial Resources**

<b>CRITERION 9</b>	<b>Governance, Institutional support and Financial resources</b>	<b>100</b>
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## **9. Governance, Institutional support and financial resources (100)**

### **9.1. Organization, Governance and Transparency (50)**

#### **9.1.1. Governing body, administrative setup, functions of various bodies, service rule procedure, recruitment and promotional policies (10)**

*List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, participation of external members in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed.*

*The published rules, policies and procedures; year of publication and its implementation shall be listed. Also state the extent of awareness among the employees/students.*

The institute has following governing, senate, academic and administrative bodies

1. Governing body
2. Local management Committee
3. Academic Monitoring committee
4. Examination committee
5. Finance and Purchase Committee
6. Anti-Ragging and Discipline Committee
7. R and D and Publications Committee
9. Training and Placement Committee
10. Library committee
11. Student Council

#### **GOVERNING BODY**

The Governing body of the institution comprises of The Trust, AICTE, DTE, Savitribai Phule Pune University, and the faculty. The meeting of the GB is held twice in a year, whereas a meeting of LMC is held twice or thrice a year. Apart from this, a meeting of Principal and Management Representative is conducted every weekend to decide on academic as well as administrative issues.

#### **Functions and Responsibilities**

- To provide appropriate facilities for effective execution of the instructional programmes and maintenance of proper academic atmosphere and discipline.
- To determine the educational excellence towards achieving mission of the Institute.



- To create and appoint suitable administrative, academic and other supportive staff, to determine their emoluments and conditions of service.
- To evaluate performance appraisal and promotion eligibility.
- To focus on strategic priorities and its implementation.
- To establish a framework for financial resources and smooth functioning of the Institute & to plan and execute strategies for betterment and well-being of employees.

**GOVERNING BODY**  
(Constituted as per AICTE guidelines)

Sr. No.	Name	Designation	Details
1.	Shri Bebilalji K. Sancheti	Chairman	SNJB Chandwad
2.	Shri Zumbarlalji H. Bhandari	Member	SNJB Chandwad
3.	Shri Dineshkumar B. Lodha	Member	SNJB Chandwad
4.	Shri. Jawaharlalji S. Abad	Member	SNJB Chandwad
5.	Shri. Prakashbhau B. Bokdiya	Member	SNJB Chandwad
6.	Dr. Amit Dutta	Nominee of the AICTE (Ex-Officio)	Western Regional Office AICTE, Churchgate, Mumbai.
7.	Shri. S.D. Bhansali	Member (Nominated by AICTE)	Nominated by Regional Officer, Western Regional Office AICTE, Churchgate, Mumbai.
8.	Dr. V. B. Gaikwad	University Nominee	Nominated BCUD Savitribai Phule Pune University Pune, Ganeshkhind, Pune.
9.	Shri. Dhyandeo P. Nathe	DTE Nominee (Ex-Officio)	Nominated by Joint Director, Joint-DTE, Samangaon Road, Nasik Road, Nasik.
10.	Awaited	State Govt. Nominee	Nominated by The Secretary, Ministry of Higher and Technical Education, Govt. Maharashtra, Mantralaya, Mumbai.
11.	Dr. Vivekanand A. Chatpalliwar	Member (Faculty)	Professor, SNJB's SSDJ College of Pharmacy, Chandwad.
12.	Dr. Ganesh D. Basarkar	Member (Faculty)	Professor, SNJB's SSDJ College of Pharmacy, Chandwad.
13.	Dr. Chandrashekhar D. Upasani	Member Secretary & Principal	Principal, SNJB's SSDJ College of Pharmacy, Chandwad.

**LOCAL MANAGEMENT COMMITTEE**

**Composition**

Sr.No.	Name	Designation	Details
1.	Shri. Bebilal K. Sancheti	Chairman	Chairman of SNJB's Prabhand Samiti
2.	Shri. Zumbarlal H. Bhandari	Member (Nominated by Trust)	Jt. Secretary of SNJB's Prabhand Samiti
3.	Shri. Dineshkumar B. Lodha	Member	Nominated by Mgt
4.	Shri. Prakashbhau B. Bokdiya	Member	Nominated by Mgt
5.	Shri. Arvindkumar D. Bhansali	Member	Nominated by Mgt
6.	Shri. Sumitala K.Surana	Member	Mgt Representative
7.	Shri. Sanjay R. Jain Asst. Professor	Member	Teacher Representative
8.	Dr. Jagdish R. Baheti Asst. Professor	Member	Teacher Representative
9.	Mrs. Nayana S. Baste Lecturer	Member	Teacher Representative
10.	Shri Ramesh D. Jain Accountant	Member	Elected Representative of Non Teaching Staff
11	Dr. Chandrahsekhar D. Upasani	Principal & Member Secretary	Member Secretary

**COLLEGE DEVELOPMENT COMMITTEE**

(Constitution as per MUA 2016 guidelines)

**Functions and Responsibilities**

- To prepare an overall comprehensive development plan of the college regarding academic, administrative and infrastructural growth, and enable college to foster excellence in curricular, co-curricular and extra-curricular activities.
- To decide about the overall teaching programmes or annual calendar of the college.
- To recommend the management about introducing new academic courses and creation of additional teaching and administrative posts.
- To make specific recommendations to the management to encourage and strengthen research culture, consultancy and extension activities in the college
- To make specific recommendations to the management to foster academic collaborations to strengthen teaching and research.

- To make recommendations regarding the student's and employee's welfare activities in the college or institution.
- To prepare the annual financial estimates (budget) and financial statements of the college or institution and recommend the same to the management for approval.
- To make recommendations regarding the students' and employees' welfare activities in the college or institution.
- To frame suitable admissions procedure for different programmes by following the statutory norms.
- To plan major annual events in the college, such as annual day, sports events, cultural events, etc.
- To recommend the administration about appropriate steps to be taken regarding the discipline, safety and security issues of the college or institution ;
- To consider and make appropriate recommendations on inspection reports, local inquiry reports, audit report, report of National Assessment and Accreditation Council, etc.

### **Composition**

<b>Sr. No.</b>	<b>Name</b>	<b>Details</b>	<b>Designation</b>
1.	Shri Bebilalji K. Sancheti Chairman, Prabandha Samiti	Chairperson of the Management (Prabandha Samiti)	Chairman
2.	Shri Zumberlalji H. Bhandari Co-ordinator, SSDJ College of Pharmacy	Jt. Secretary of the Management (Prabandha Samiti)	Member
3.	Dr. Vivekanand A. Chatpalliwar, Professor	Head of the Department SSDJ College of Pharmacy	Member
4.	Dr. Sanjay B. Patil Associate Professor	Teachers Representative SSDJ College of Pharmacy	Member
5.	Dr. Aman B. Upaganlawar Associate Professor	Teachers Representative SSDJ College of Pharmacy	Member
6.	Mrs. Charulata T. Nemade Assistant Professor	Teachers Representative SSDJ College of Pharmacy	Member
7.	Shri. Kiran S. Kadlag Jr. Clerk	Non-Teaching Representative SSDJ College of Pharmacy	Member
8.	Dr. Sunil V. Amrutkar Principal	Dr. M.S.G. College of Pharmaceutical Education and Research, Nasik.	Member
9.	Shri. Arvindkumar D. Bhansali Socialist	Bhansali Tractors, Dhantara, A/p. Tal. Kopargaon, Dist. Ahmednagar	Member

10.	Dr. Nagesh Badwe Vice President (Manufacturing)	Concept Pharmaceuticals Ltd. A-28/3 MIDC, Chikhalthana, Aurangabad.	Member
11.	Mr. Vinod D. Godse Research Scientist	Wockhardt R&D, D/4 MIDC, Chikhalthana, Aurangabad.	Member
12.	Dr. Ganesh D. Basarkar Professor	Co-ordinator-IQAC SSDJ College of Pharmacy	Member
13.	Ms. Deepa D. Nakmode President-Student Council	Students Council SSDJ College of Pharmacy	Member
14.	Mr. Pranit B. Ahire Secretary- Student Council	Students Council SSDJ College of Pharmacy	Member
15.	Dr. Chandrashekar D. Upasani	Principal, SSDJ College of Pharmacy	Member Secretary

### **ACADEMIC MONITORING COMMITTEE**

#### **Functions and Responsibilities**

- To monitor the daily academic activities of the college.
- To prepare the time-table and monitor academic activity.
- To make necessary and alternative arrangements for academic in case of emergency. To make the necessary alternative arrangements for academic in case of emergency
- To plan and carry out the project activities for the students
- To govern the student counseling centre etc.
- To plan and execute Parent-Teacher meetings.
- To meet and plan for punctuality in semester academic activities by class teachers.

#### **Composition**

Sr.No	Name of member	Designation
1.	Dr. C. D. Upasani	Chairman
2.	Dr. V. A. Chatpalliwar	Member
3.	Dr. G. D. Basarkar	Member
4.	Dr. A. B. Upaganlawar	Member
5.	Mr. M. A. Chordiya (F. Y. B. Pharm)	Member
6.	Mrs. C.T.Nemade (S. Y. B. Pharm)	Member
7.	Mrs. V. R. Daga (T. Y. B. Pharm)	Member
8.	Mrs. N. S. Baste(Final B.Pharm)	Member
9.	Mr. M. S. Mahajan (F. Y. M. Pharm)	Member
10.	Dr. A. S. Mundada (S. Y. M. Pharm)	Member
11.	Dr. V. S. Gulecha	Member secretary



**SNJB's**  
**SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY**  
**JAIN GURUKUL, NEMINAGAR,**  
**AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101.**

Ref. No: SNJB/SSDJCOP/AMC/01/2016-17

Date: 11.07.2016


**NOTICE OF THE MEETING**


A meeting of academic monitoring committee of the SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad is scheduled on Monday, 11/07/2016 at 1.30 p.m. in the Conference Hall of the college for an approval of various proposed works and discussion on various issues related to college.

Kindly make it convenient to attend the meeting.

**Agenda:**

1. To approve the minutes of last meeting.
2. To discuss the credit pattern system. (2015 pattern)
3. Preparation for the semester VII and VIII pattern (2013 pattern)
4. Subject distribution for final year.
5. Examination related issue
6. Any other subject with permission of Chair

  
(Dr. V. S. Gulecha)  
Secretary

  
(Dr. C.D. Upasani)  
Chairman  
**PRINCIPAL**  
SNJB's S.S.D. Jain College of  
Pharmacy Chandwad (Nashik)

Copy for information to all the committee members.

1. Dr. V.A. Chatpalliwar
2. Dr. G.D. Basarkar
3. Dr. A.B. Upaganlawar
4. Dr. M.A. Chordiya
5. Mrs. C.T. Nemade
6. Mrs. V.R. Daga
7. Mrs. N.S. Baste
8. Dr. A. S. Mundada
9. Mr. M.S. Mahajan

**ANTI-RAGGING AND DISCIPLINE COMMITTEE**

**Functions and Responsibilities**

- To formulate and execute the Anti-Ragging cell and squad, officiating within campus.
- To monitor the overall discipline of the staff and the students.
- To facilitate and help activities at girls and boys hostel
- To monitor and take corrective measures for students overall attendance etc.

**Composition**

Sr. No	Name of member	Designation	Contact No.
1.	Dr. C. D. Upasani	Principal	9822112007
2.	Mr. M. S. Mahajan	Discipline In charge/secretary	9423962663
3.	Dr. V. S. Gulecha	Assistant Professor	8554916001
4.	Mr. R. A. Khandare	Assistant Professor (Boys hostel I/c)	9922443562
	Mrs. N. S. Baste	Assistant Professor (Girls hostel I/c)	8308684655
5.	Mr. Akash Mahajan	Student (Final year)	9767517527
	Ms. Deepa Nakmode	Student ( Final Year)	7276291313
6.	Mr. K. S. Kadlag	Jr. Clerk	9403127686
7.	Mr. Ramesh R. Aher	Guardian/local resident	7588175490
8.	Mr. Kailas P. Chaudhari	Police Sub-Inspector	9823714504
9.	Mr. M. M. Gujrathi	Local media	9422262340
10.	Mrs. Sangita R. Bafna	Socially Aware Member	9403161382

## **EXAMINATION COMMITTEE**

### **Function and Responsibilities**

- To plan and conduct the internal and external examinations of the college.
- To make a necessary arrangement for the conduct of internal and external examination
- To monitor the examination work etc.

### **Composition**

<b>Sr.No</b>	<b>Name of member</b>	<b>Designation</b>
1.	Dr. C. D. Upasani	Principal & Professor
2.	Dr. V. S. Gulecha	College Exam. Officer/member secretary
3.	Dr. V. A. Chatpalliwar	Professor & HOD Pharm. Chemistry
4.	Dr. G. D. Basarkar	Professor & HOD Pharmaceutics
5.	Dr. S. B. Patil	Associate Professor
6.	Dr. A. B. Upaganlawar	Associate Professor
7.	Mrs. C.T. Nemade	Assistant Professor & HOD Pharmacognosy
8.	Mr. M. S. Mahajan	Discipline In charge
9.	Mr. V. M. Mahale	Assistant to CEO
10.	Mr. K. S. Kadlag	Assistant to Senior Supervisor
11.	All Class Representatives	Students

## **FINANCE AND PURCHASE COMMITTEE**

A committee has been operative for purchasing all sorts of requirements in the college. The constitution of the committee, its operational process and periodicity are mentioned below.

### **Function and Responsibilities**

- An indent mentioning requirement, duly permitted by the Respected Principal is presented to the purchase committee.
- The committee calls price quotation from three contracted/ new suppliers for the said requirement.
- The price quotations are discussed by higher authorities in the committee.
- A comparative statement is prepared on the basis of eligible price quotations.
- Order is placed, with conditions, to the supplier delivering timely/quality/economic goods.
- Goods delivered by the supplier are checked by the store committee.
- A satisfactory report is furnished by respective end users.
- The bills of the purchased goods are placed to the account section, which is passed within a fortnight.
- List of all purchased goods are recorded in a stock register, along with all purchase details; related information is imprinted on non-consumable goods.

### **Composition**

<b>Sr.No</b>	<b>Name of member</b>	<b>Designation</b>
1.	Shri. Zhumbharlal Bhandari	Chairman
2.	Dr. C. D. Upasani	Member
3.	Dr. V. A. Chatpalliwar	Member
4.	Shri. R. D. Jain	Member
5.	Mr. Hitesh Shahare	Store In-charge/member secretary



## **LIBRARY COMMITTEE**

### **Function and Responsibilities**

- To monitor day to day work of library.
- To prepare and execute the rules and regulations of library
- To plan and execute the purchases of the library
- To meet up with the requirements of the students etc.

### **Composition**

<b>Sr.No.</b>	<b>Name</b>	<b>Designation</b>
1.	Dr. C. D. Upasani	Chairman, Principle
2.	Dr. A. B. Upaganlawar	Library In - charge
3.	Shri. Y. P. Shinde	Secretary, Librarian
4.	Dr. S. B. Patil	Member
5.	Dr. M. A. Chordiya	Member
6.	Mr. M. S. Mahajan	Member
7.	Mrs. C. T. Nemade	Member
8.	Mrs. N.S. Baste	Member
9.	Mr. V. M. Thoke	Member
10.	Mr. G. S. Aher	Member (Student Representative)
11.	Miss. Yogita Shinde	Member (Student Representative)



**R & D AND PUBLICATIONS COMMITTEE**

**Function and Responsibilities**

- To monitor the research and recognition activities of the college
- To publish magazine of the college on annual basis
- To maintain the standards of publications and presentations of the college
- To work as advisory for various research activities of the college etc.

**Composition**

Sr. No	Name of the Member	Designation
1.	Dr. C. D. Upasani	Chairman
2.	Dr. V. A. Chatpalliwar	Member
3.	Dr. G. D. Basarkar	Member
4.	Dr. J. R. Baheti	Member
5.	Prof. S. R. Jain	Member
6.	Dr. A. B. Upaganlawar	Member
7.	Dr. S. B. Patil	Member
8.	Dr. A. S. Mundada	Secretary

**TRAINING AND PLACEMENT COMMITTEE**

**Function and Responsibilities**

- To facilitate the training and placement activities in the college.
- To arrange campus interviews in the college.
- To arrange various training programs in the college.
- To locate and explore the job opportunities for our students etc.
- To facilitate/ inform, POOL-CAMPUS DRIVES for placements.

**Composition**

Sr. No	Name of the Member	Designation
1.	Dr. G. D. Basarkar	Chairman
2.	Dr. V. A. Chatpalliwar	Member
3.	Dr. A. B. Upaganlawar	Member
4.	Dr. S. B. Patil	Member
5.	Dr. A. S. Mundada	Secretary
6.	Mr. H. H. Gangurde	Secretary



SHRI NEMINATH JAIN BRAHMACHARYASHRAM'S  
SHRIMAN SURESHDADA JAIN COLLEGE OF PHARMACY  
JAIN GURUKUL, NEMINAGAR,  
AT/P. CHANDWAD, Tal. Chandwad, Dist. Nashik-423 101.

01.02.2013

**NOTICE OF THE MEETING**

A meeting of Training and Placement committee of the SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad is scheduled on **Friday, 08/02/2013** at 2.00 p.m. in the Conference Hall of the college.

Kindly make it convenient to attend the meeting.

**Agenda:**

1. To discuss the status of placement interviews for outgoing M.Pharm and B. Pharm. students.
2. To decide the resource persons from different pharmaceutical industries for delivering lectures to B.Pharm and M.Pharm students.
3. Any other subject related to the industrial visits/placements.

(Dr. A.S. Mandada, Mr. H.H. Gangarde)  
Secretary

(Dr. G.D. Basarkar)  
Chairman

(Dr. C.D. Upasani)  
Principal

Copy for information to all the committee members.

Dr. C.D. Upasani  
Dr. V. A. Chaturvedi  
Dr. S. B. Patil  
Dr. A. B. Upaganliwar  
Mr. M. S. Mahajan (Secretary, Industry-Institution interaction committee)  
Mr. P.P. Galankar-Special Invitee

04/02/2013

**Service rule procedure, recruitment and promotional policies**

1. The rules are well defined. The policies and procedures are clear. Rules concerned with the general administration of the college, recruitment procedure and service conditions of the staff, leave rules of the staff, policies of promotion and increment are framed properly.
2. All the newly recruited staff and the newly admitted students are made aware of these rules.
3. Recruitment of faculty is executed through a following three-stage process-
  - a. Advertisement about requirement of staff in the news paper and call for the application within stipulated period from the candidates.
  - b. Received the applications from candidates, scrutiny of the applications and then call the candidate.
  - c. Personal interview at college level with Respected Principal and staff members of concerned department.
  - d. Interview and demonstration of teaching skills in front of selection committee.
  - e. Approval process is implemented as per SPPU norms.
4. Recruitment of supportive staff is done, as per requirement, and after proper two stage interview with Respected Principal, and Respected Representative of Management.
5. Promotions and appraisals of faculty are based on Continous Assessment System, and rules and regulations are amended as changed/updated by regulatory authorities such as DTE, AICTE, PCI, and Govt. of Maharashtra time to time.
6. Conditions of service, respective emoluments are discussed with the new entrant at stage b mentioned above in point 3.
7. The published rules, policies and procedures with regard to faculty and staff recruitment, promotions, leaves and retirement are made available on the college website.

**9.1.2. Decentralization in working and grievance redressal mechanism (15)**

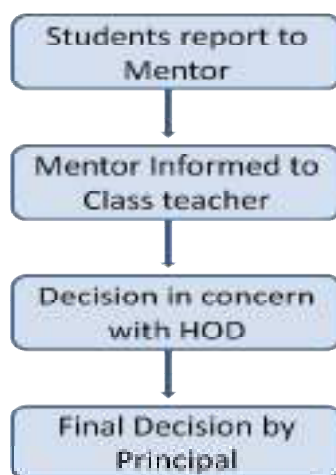
*(List the names of the faculty members who are administrators/decision makers for various responsibilities. Specify the mechanism and composition of grievance redressal cell)*

**List of the faculty members who are administrators/decision makers for various responsibilities**

Sr. no	Name of Committee	In charge
1.	Examination	Dr. V. S. Gulecha
2.	Purchase	Dr. V. A. Chatpalliwar
3.	Training and placement	Dr. G. D. Basarkar
4.	Internal complaint committee	Mrs. V. R. Daga
5.	Student council	Mr. M. S. Mahajan
6.	NSS Unit	Mr. V. S. Borkar
7.	Discipline	Mr. M. S. Mahajan
8.	Cultural Committee	Mrs. V. R. Daga
9.	Library committee	Dr. A. B. Upaganlawar
10.	Sports Committee	Dr. H. H. Gangurde
11.	Alumni Committee	Mr. M. S. Mahajan
12.	LMC/GB/ College development committee	Mrs. C. T. Nemade
13.	GPAT and Competitive examination	Mrs. N. S. Baste
14.	Academic committee	All HOD's

Decentralization in working is achieved by constituting several committees and sub-committees.

- Every class teacher conducts periodic meetings with the members of faculty along with HODs and examination in-charge to discuss various issues related to academics, examination and discipline.
- The faculty members report different issues to the HODs, exam related issues to examination in-charge, to commence to a particular solution.
- These issues and their suggested solutions are then discussed with the Respected Principal, final approval is sought.



### **GRIEVANCE REDRESSAL CELL**

The college has a Grievance Redressal Cell; the committee members are nominated by the Principal of the college and it works under his supervision, for solving grievances of students, staff & parents. The composition and functions of the cell is as follows.

### **WOMAN PROTECTION COMMITTEE/ INTERNAL COMPLAINT COMMITTEE**

This committee is constituted to make provisions against protection against harassment of women at the workplace. The committee members receive complaint of any sort alarmed by the victim of any incidence and act for treatment in a time bound manner. Following details describe the working of the committee.

- Committee members ensure that victims or witness are not victimized or discriminated against while dealing complaints of sexual harassment.
- Complaint mechanism is adequate to provide a special counselor or other support device, including the adequate confidentiality.
- Committee makes an annual report to the concerned governing department and action is taken by them.
- All the committee members spread awareness regarding rights of female employee by prominently notifying the guidelines in a suitable manner.
- The committee takes care of women's protection. Regular meeting of The Chairman with the committee members is conducted to discuss aspects regarding the protection of women and girls in the college.
- Presence of all committee members for meeting is compulsory.
- All committee members are duly responsible for the working of committee.

- Functioning of the committee is reported timely to the Respected Principal.
- The committee will report its decisions, suggestions, finding to the concerned person staff and to the college authorities immediately after meeting.

### **Composition**

Following staff members are appointed for this with various capacities

Sr.No	Name	Designation
1.	Mrs. V. R. Daga	Chairman
2.	Mrs. C. T. Nemade	Member
3.	Mrs. N. S. Baste	Member
4.	Dr. V. S. Gulecha	Member
5.	Mr. L. P. Kothari	Member
6.	Mrs. V. M. Gunjal	Secretary

### **9.1.3. Delegation of financial powers (15)**

*(Explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each year of the assessment years.)*

- The Principal of the Institution has been delegated a power to purchase goods costing upto Rs. 5000/- .
- The HODs of all the department have been delegated a power upto Rs. 1000/- .
- Decisions to purchase goods costing above Rs. 5000/- are taken in weekly meetings after proper discussion with management representatives.

### **Details of utilization of financial powers**

Assmt. Year	Principal	HOD P'ceutics	HOD P'cology	HOD P'chemistry	HOD P'cognosy
2014-15	Rs. 21773	Rs. 1679	Rs. 530	Rs. 335	Rs. 2860
2015-16	Rs. 7125	Rs. 2781	Rs. 2788	Rs. 991	Rs. 1620
2016-17	Rs. 8315	Rs. 181	Rs. 2374	Rs. 300	Rs. 1483
2017-18	Rs 15911	Rs 1512	Rs 2152	Rs 791	Rs 1338

### **9.1.4. Transparency and availability of correct/unambiguous information in public domain (10)**

*Information on the policies, rules, processes is to be made available on web site.*

Information concerned with students and circulated/communicated by regulatory authorities is routinely displayed on the notice boards of college. The course structure and syllabus prescribed by the affiliating university is displayed, and timely updated on the Website. Our students, staff and parents are continuously communicated though various mode like SMS, Whatsapp, emails, etc.



Several activities occurring in the college have been published in newspapers and also on facebook page. Proper responsible counseling is provided to the students as and when any difficulty. Respective percentages of attendance and internal marks are regularly displayed on the notice board.

**Rules regarding following aspects have been displayed on the institute website.**

- Admissions to the Degree course in pharmacy are as per DTE norms.
- Approved fee structure
- Cancellation of admission and refund of fees
- Regular attendance & Examination

## 9.2. Budget allocation, utilization, and public accounting at the institute level (30)

*Summary of current financial year's budget and actual expenditure incurred (for the Institution exclusively) in the three previous financial years.*

**Total Income at Institute level: for CFY, CFYm1, CFYm2 and CFYm3**

*CFY: Current Financial Year, CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2) and CFYm3 (Current Financial Year minus 3).*

*Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3.*

### **For Current Financial Year CFY (2017-18)**

Total Income				Actual expenditure (till March-2018)			Total No. of students: 261
Fee	Govt	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects /Any other, specify	Expenditure per student
23501200	--	99451	888602	20639936	429709	--	80418

### **For Current Financial Year CFYm1 (2016-17)**

Total Income				Actual expenditure (till March-2017)			Total No. of students: 261
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/Any other, specify	Expenditure per student
22064620	--	594142	601183	18679638	3504868	--	84998

**For Current Financial Year CFYm2 (2015-16)**

Total Income				Actual expenditure (till March 2016)			Total No. of students: 255
Fee	Govt	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects /Any other, specify	Expenditure per student
20149473	--	659123	557418	17306154	3904043	--	83177

**For Current Financial Year CFYm3 (2014-15)**

Total Income				Actual expenditure (till March-2015)			Total No. of students: 256
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects /Any other, specify	Expenditure per student
18743756	--	1033735	426642	13943030	3819997	--	69386.82

**For Current Financial Year CYFm4 (2013-14)**

Total Income				Actual expenditure (till March 2014)			Total No. of students: 264
Fee	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/ Any other, specify	Expenditure per student
17655087	-	1340353	673474	12381388	3855389	-	61502.94

Items	Budgeted in CFY	Actual expenses in CFY (till March 2018)	Budgeted in CFY <sub>m1</sub>	Actual Expenses in CFY <sub>m1</sub>	Budgeted in CFY <sub>m2</sub>	Actual Expenses in CFY <sub>m2</sub>	Budgeted in CFY <sub>m3</sub>	Actual Expenses in CFY <sub>m3</sub>	Budgeted in CFY <sub>m4</sub>	Actual expense in CFY <sub>m4</sub>
	(2017-18)	(2017-18)	(2016-17)	(2016-17)	(2015-16)	(2015-16)	(2014-15)	(2014-15)	(2013-14)	(2013-14)
Infrastructure Built-Up	--	--	--	--	--	--	--	--	--	--
Library	220000	177198	400000	483691	130000	104834	440000	359830	675000	808906
Laboratory equipment	100000	88088	8000	6961	100000	83300	200000	163425	450000	373587
Laboratory consumables	1000000	469759	60000	51503	380000	269647	310000	255208	620000	525052
Teaching and non-teaching staff salary	5850000	16573920	23000000	18679638	20000000	17306154	16500000	13943030	13950000	12381388
Maintenance and spares	800000	665666	140000	113435	225000	198646	160000	139649	130000	104884
R&D	3200	2687	36000	28850	11000	9696	210000	172654	300000	253644
Training and Travel	11000	9416	30000	24232	8000	6900	12000	9600	10000	8495

Miscellaneous expenses *	--		--	--	--	--	--	--	--	--
Others, Specify	36,00,000	2930591	2749000	3339930	4000000	3435750	22100000	17794181	1741000	2952391
Total	1,15,84,200	20917325	26423000	22728240	24854000	21414927	39932000	32837577	17876000	17408347

**9.2.1. Adequacy of budget allocation (10)**

*Justify that the budget allocated over the years was adequate.*

The annual budget is prepared according to the infrastructural needs and academic requirements of the institute, which in turn is related to the annual intake of students, and availing of funds from several agencies and based on past budget expenditure.

**9.2.2. Utilization of allocated funds (15)**

*State how the budget was utilized during the last three years.*

Allocated funds utilized for its allocated purpose and are mentioned below.

Sr.No	Financial year	Fund allotted	Fund Utilized
1.	2017-2018	11584200	20917325
2.	2016-2017	26423000	22728240
3.	2015-2016	24854000	21414927
4.	2015-2014	39932000	32837577

**9.2.3. Availability of the audited statements on the institute's website (5)**

*(Needs to make audited statements available on its website)*

Audited statements of all the assessment years are made available on the college website.

[www.snjb.org/pharmacy](http://www.snjb.org/pharmacy).

**9.3. Library and Internet (20)**

*(It is assumed that zero deficiency report was received by the institution, Effective availability and utilization to be demonstrated.)*

**9.3.1. Quality of learning resources (hard/soft) (10)**

*Relevance of available learning resources including e-resources Accessibility to students*

The library of our college is a live and ever growing institute in itself which spreads across 205.79 square meter; housing well illuminated and spacious reading rooms and stacking rooms for books and periodicals. It offers in all 9589 books, judiciously classified into Reference and Text books, worth Rs. 47 lakhs. It also subscribes total 27 periodicals of which 6 are of international repute. It is also equipped with reprography facility.

The pleasant and silent environment of library also houses an E-library equipped with uninterrupted Wifi connectivity, enabling efficient browsing and downloading. ERP software enables the library staff to monitor the inventory of the library.

<b>Total Carpet Area in Sq. Mtr.</b>	<b>205.79</b>
Reading Room Area in Sq. Mtr.	108.72
Stock Area in Sq. Mtr.	95.67
Reading Hall Seating Capacity	100

No. of Titles	2000
No. of Books / E- Book	9589 / 1200
No. of National Journals	21
No. of International Journals	06
No. of News Paper	10
No. of CD	179
Total Cost of	
A) Books	43,31,233/-
B) Subscription for Print Journals	51570/-
C) E- Journals / Delnet	13,570/-
Cost of Furniture	8,42,325/-
Whether Xerox facility is Available	Yes
Whether Computers Available in the Library	Yes
Whether Multimedia Facility	9
Library Staff	3
Library Timing	8.00 am to 8.00 pm

### 9.3.2. Internet (10)

*Name of the Internet provider Available bandwidth, Wi Fi availability, Internet access in labs, classrooms, library and other offices Security arrangements*

Name of the Internet provider	Tata Docomo and IDEA, 100MpBS FTTH BSNL connections
Available bandwidth	30 mpbs and 20 mpbs respectively
Wi Fi availability	Available in campus under the aegis of GURKUL hotspot and Jio FI
Internet access in laboratory, classrooms, library and other offices.	<p>The Institute upgrades the computer systems with recent configurations as per requirements of users and syllabus. As per the norms laid by governing bodies, Institute initiates changes in IT infrastructure.</p> <p><b>Networking:</b></p> <ul style="list-style-type: none"> <li>The Institute has fiber optics, copper and wireless</li> </ul>

	<p>network.</p> <ul style="list-style-type: none"> <li>• All laboratories are networked with structural networking for efficient functioning.</li> </ul>
IT Security	<ul style="list-style-type: none"> <li>• The Institute has Cisco ISA-570 firewall system for network security.</li> <li>• Institute has Quick Heal antivirus for computer systems.</li> <li>• The Institute has Linux Proxy Server for user information security purpose with provision of user name and password &amp; entire log is maintained on the server.</li> <li>• The Institute has individual email domain 'snjb.org'.</li> <li>• The computers in the laboratories, staffrooms and library are networked which provide internet access to all the students and the staff.</li> <li>• Computer systems are available for staff in their respective labs with internet access for preparation of lecture contents and presentation.</li> <li>• All the classrooms and seminar hall are equipped with LCD projectors for visual presentation for effective teaching learning process.</li> <li>• Enterprise resource planning (ERP) software from Serosoft Solutions Academia for automation of academic and non academic processes is used in the Institute to maintain and analyze the data related to various processes of Institute.</li> </ul>



SNJB's SHRIMAN SURESHDADA JAIN  
**COLLEGE OF PHARMACY**

• Affiliated to University of Pune • Approved by AICTE New Delhi, PCI New Delhi

**Declaration by the Institution**

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post-visit and subsequent to grant of accreditation.

**Date: 14/12/2018**

**Place: CHANDWAD**

Seal



**(Dr.C.D.Upasani)**

**PRINCIPAL**

SNJB'S SHRIMAN SURESHDADA JAIN  
COLLEGE OF PHARMACY, NEMNAGAR  
CHANDWAD (NASHIK)

**SNJB**

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W : www.snjbpharmacy.org



**ANNEXURE I**  
**PROGRAM OUTCOMES**

1. **Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
2. **Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
3. **Problem analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
4. **Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
5. **Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
6. **Professional Identity:** Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
7. **Pharmaceutical Ethics:** Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
8. **Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

9. **The Pharmacist and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
10. **Environment and sustainability:** Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
11. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

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