

**TRUBA INSTITUTE OF PHARMACY BHOPAL**  
**Pharmacy**

**NBA-SAR**

## Part A : Institutional Information

### 1 Name and Address of the Institution

TRUBA INSTITUTE OF PHARMACY BHOPAL,  
TRUBA INSTITUTE OF PHARMACY KAROND GANDHI NAGAR BYPASS ROAD BHOPAL

### 2 Name and Address of Affiliating University

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA BHOPAL

### 3 Year of establishment of the Institution:

2004

### 4 Type of the Institution:

<input type="radio"/> University	<input checked="" type="radio"/> Affiliated
<input type="radio"/> Deemed University	<input type="radio"/> Any other(Please Specify)
<input type="radio"/> Autonomous	

### 5 Ownership Status:

<input type="radio"/> Central Government	<input checked="" type="checkbox"/> Trust
<input type="radio"/> State Government	<input checked="" type="checkbox"/> Society
<input type="radio"/> Grant In Aided	<input type="checkbox"/> Section 25 Company
<input type="radio"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

### 6 Other Academic Institutions of the Trust/Society/etc., if any

Name of Institutions	Year of Establishment	Programs of Study	Location
Truba Institutes of Engineering and Information Technology Bhopal	2001	B.Tech, M.Tech	Truba Institutes of Engineering and Information Technology Bhopal Karond Gandhi nagar Bypass road Bhopal
Truba college of science and commerce Bhopal	2019	B.Com, BBA, MBA	Truba college of science and commerce Bhopal Karond Gandhi nagar Bypass road Bhopal

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

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Pharmacy	UG	2004	2004	60	Yes	100	Applying first time	--	--	Yes	4
<b>Sanctioned Intake for Last Five Years for the Pharmacy</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2022-23				100							
2021-22				100							
2020-21				100							
2019-20				100							
2018-19				100							
2017-18				60							
Master of Pharmacy Pharmacology	PG	2008	2008	24	Yes	15		--	--	No	2
<b>Sanctioned Intake for Last Five Years for the Master of Pharmacy Pharmacology</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2022-23				15							
2021-22				15							
2020-21				15							
2019-20				15							
2018-19				15							
2017-18				15							
Master of Pharmacy Pharmaceutics	PG	2010	2010	18	Yes	15		--	--	No	2
<b>Sanctioned Intake for Last Five Years for the Master of Pharmacy Pharmaceutics</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2022-23				15							
2021-22				15							
2020-21				15							
2019-20				15							
2018-19				15							
2017-18				15							
Diploma in Pharmacy	Diploma	2019	2019	60	No	60		--	--	No	2

**8 Programs to be considered for Accreditation vide this application:**

S No	Level	Discipline	Program
1	Under Graduate	Pharmacy	Pharmacy

**9 Total number of employees**

**A. Regular\* Employees (Faculty and Staff):**

Items	2022-23		2021-22		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Pharmacy (Male)	19	19	18	18	16	16
Faculty in Pharmacy (Female)	18	18	13	13	11	11
Faculty in Science & Humanities (Male)	01	01	02	02	02	02
Faculty in Science & Humanities (Female)	0	0	0	0	0	0
Non-teaching staff (Male)	07	07	07	07	07	07
Non-teaching staff (Female)	01	01	01	01	01	01

**B. Contractual\* Employees (Faculty and Staff):**

Items	2022-23		2021-22		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Pharmacy (Male)	0	0	0	0	0	0
Faculty in Pharmacy (Female)	0	0	0	0	0	0
Faculty in Science & Humanities (Male)	01	01	01	01	01	01
Faculty in Science & Humanities (Female)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (Female)	0	0	0	0	0	0

**10 Total number of Pharmacy students:**

UG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Diploma	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

#### UG Shift-1

Total number of Pharmacy students	2022-23	2021-22	2020-21
Total No. of Boys	342	326	270
Total No. of Girls	56	56	56
<b>Total</b>	<b>398</b>	<b>382</b>	<b>326</b>

#### PG Shift-1

Total number of Pharmacy students	2022-23	2021-22	2020-21
Total No. of Boys	31	41	33
Total No. of Girls	21	15	23
<b>Total</b>	<b>52</b>	<b>56</b>	<b>56</b>

#### Diploma Shift-1

Total number of Pharmacy students	2022-23	2021-22	2020-21
Total No. of Boys	95	92	88
Total No. of Girls	22	29	28
<b>Total</b>	<b>117</b>	<b>121</b>	<b>116</b>

#### 11 Vision of the Institution:

To become one of the “LEADING LIGHTS” of Pharmaceutical Education in India

#### 12 Mission of the Institution:

**M1:** To become centre of excellence in Education, Research, Innovation in Pharmaceutical Sciences.

**M2:** To inculcate Moral, Ethical, Professional Values in Pharmacy Graduates and Post Graduates.

**M3:** To provide Latest Technological Advancement in Pharmacy students through inspiring Learning.

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

<b>Head of the Institution</b>	
Name	Prof. (Dr.) Surendra Kumar Jain Director
Designation	
Mobile No.	9425011781
Email ID	prof.surendrajain@gmail.com

**NBA Coordinator, If Designated**

Name	Prof. (Dr.) Rajesh Singh Pawar
Designation	Principal
Mobile No.	9826219429
Email ID	rajeshabc14@rediffmail.com

## PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	150	150.00
3	COURSE OUTCOMES (COS) AND PROGRAM OUTCOMES (POS)	100	100.00
4	STUDENTS' PERFORMANCE	180	141.23
5	FACULTY INFORMATION AND CONTRIBUTIONS	175	132.71
6	FACILITIES	120	120.00
7	CONTINUOUS IMPROVEMENT	75	72.08
8	STUDENT SUPPORT SYSTEMS	50	50.00
9	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	100	95.00
	<b>Total</b>	<b>1000</b>	<b>911</b>

## Part B

### 1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

#### 1.1 State the mission & vision (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To become one of the “LEADING LIGHTS” of Pharmaceutical Education in India	
Mission of the institute	<b>M1:</b> To become centre of excellence in Education, Research, Innovation in Pharmaceutical Sciences. <b>M2:</b> To inculcate Moral, Ethical, Professional Values in Pharmacy Graduates and Post Graduates. <b>M3:</b> To provide Latest Technological Advancement in Pharmacy students through inspiring Learning.	
Vision of the Department	To become one of the “LEADING LIGHTS” of Pharmaceutical Education in India	
Mission of the Department	<b>Mission No.</b>	<b>Mission Statements</b>
	M1	To become centre of excellence in Education, Research, Innovation in Pharmaceutical Sciences.
	M2	To inculcate Moral, Ethical, Professional Values in Pharmacy Graduates and Post Graduates.
	M3	To provide Latest Technological Advancement in Pharmacy students through inspiring Learning.

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

Total Marks 5.00

PEO No.	Program Educational Objectives Statements
PEO1	<p>Knowledge &amp; Understanding The Pharmacy professionals should possess upon graduation, complete knowledge and skills associated with Healthcare, pharmaceutical industry, medication use, safety and effectiveness.</p>
PEO2	<p>Skill Development The Pharmacy professionals are expected to demonstrate their skills and competence in providing quality pharmaceuticals, drug information including legal and ethical aspects.</p>
PEO3	<p>Pharmacy Practice The Pharmacy professionals should be able to inculcate the knowledge, amendments in technology by continuous upgradation of professional information and participation in implementation of National health programmes, understand and act for social, economic, requirements of Pharmacy profession.</p>
PEO4	<p>Pharmacy Ethics The Pharmacy professionals shall be prudent, comprehend and act for social, economic, federal setup and requirements &amp; this shall be personify by their moral, legal, and ethical functioning in the various regions of Pharmacy profession.</p>

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

Total Marks 15.00

The Vision, Mission statement and Program Educational Objectives (PEO's) of the college are published and disseminated through the following methods

- Print Media
- Electronic Media
- Display Boards
- Direct Communication

1. Website of Institute : <https://trubapharmacy.com>

2. Flexes in the Institute

3. Institution office files

4. Student news letter

5. Placement brochure

6. Notice boards

7. Principal's cabin /Director's Cabin

8. Faculty Cabins

9. Classrooms

10. Laboratory journals etc

Apart from this, Mission and Vision is disseminated to all the stakeholders of the Program through faculty meetings, student induction/orientation programs, and parent meetings.

The Institute makes numerous efforts to ensure that the Program Educational Objectives (PEO's) of B. Pharm program are communicated effectively to all the stakeholders viz. students, faculty, parents, employers, alumni, management etc.



The Vision and Mission Statements were defined by involving the stakeholders of the institution, considering the institutional Mission & Vision, the environmental scan and future of the country and global projections in the field of Pharmaceutical industry, Academic, Research and community focus (Fig.1).

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

**Step 2:** Views were taken from various stakeholders of the college such as faculty, industry, management, students, parents and alumni.

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

This was conducted covering all internal stakeholders including management and alumni. Institutional Academic Planning & Monitoring Committee (IAPMC) provided the input based on the policies of the Pharmaceutical industry across the state and the country projecting the need of skilled man power as per councils like PCI and AICTE. IAPMC also considered the Institutional Vision & Mission and that of the affiliating university to ensure consonance.

Conducting the course as per defined calendar of events, providing students with a well planned Course plan (subject & lesson plan) of the semester. Training the students with co-curricular and extra-curricular activities to meet the newer challenges and ideas in the pharma fields

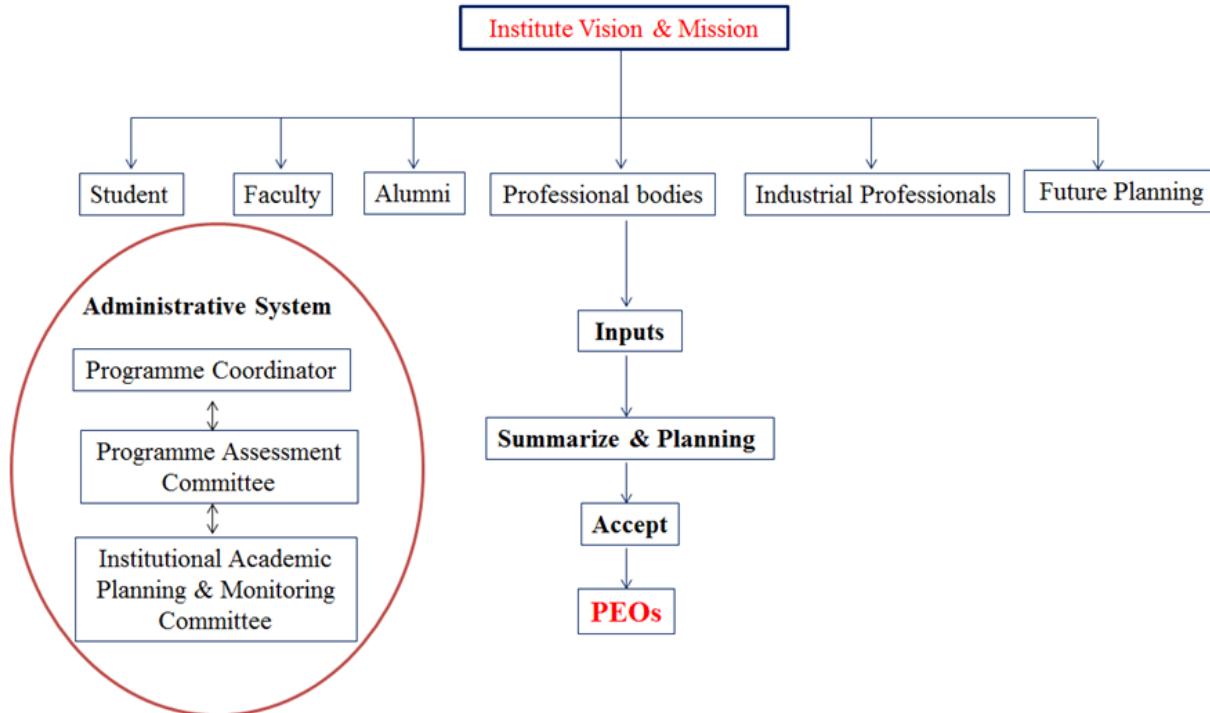


Fig.1. Process For defining PEOs

#### Program Educational Objectives

The Program Educational Objectives were established through a consultation process involving the core constituents such as: **Students, Alumni, Industry, Faculty and Employer** (Fig.2.).

**Step 1:** Vision and Mission of the Department were taken as a basis to interact with various

Stake-holders and graduate attributes defined by NBA were also kept in view.

**Step 2:** Program Coordinator consulted the key constituents and collected and summarized their views.

**Step 3:** Institutional Advisory Board deliberated on the views expressed by the Program Coordinator and formulated the accepted views based on which PEOs are to be established.



Fig.2. Objectives of Institute

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

Total Marks 15.00

Institute Marks : 15.00

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.

##### Justification:

- **PEO1** is highly consistent with all the mission components. The Pharmacy graduates of the institute will be able to have strong fundamental concepts and high technical competence in Pharmaceutical sciences, and able to use these tools in Pharmaceutical industry, hospitals and institutes or wherever in the area of profession they choose necessary for success..
- **PEO2** is highly consistent with all the mission components. The Pharmacy graduates will be able to resolve the problems associated with manufacturing of dosage forms using scientific principles, innovative ideas and making decisions during daily practice.
- **PEO3** is highly consistent with all the mission components. The Pharmacy graduates will be motivated to become a life-long learner to acquire newer ideas or technologies and advancements and thus offers a leadership role in the society.
- **PEO4** is highly consistent with all the mission components. The Pharmacy graduates should be able to be a part of the team to communicate well with other professionals in providing medicines needed to the society with standards of professional ethics and social responsibilities.

PEO Statements	M1	M2	M3
Knowledge & Understanding The Pharmacy professionals should possess upon graduation, complete knowledge and skills associated with Healthcare, pharmaceutical industry, medication use, safety and effectiveness.	3	3	2
Skill Development The Pharmacy professionals are expected to demonstrate their skills and competence in providing quality pharmaceuticals, drug information including legal and ethical aspects.	3	3	3
Pharmacy Practice The Pharmacy professionals should be able to inculcate the knowledge, amendments in technology by continuous upgradation of professional information and participation in implementation of National health programmes, understand and act for social, economic, requirements of Pharmacy profession.	3	2	3
Pharmacy Ethics The Pharmacy professionals shall be prudent, comprehend and act for social, economic, federal setup and requirements & this shall be personify by their moral, legal, and ethical functioning in the various regions of Pharmacy profession.	3	3	3

#### 2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (150)

Total Marks 150.00

##### 2.1 Program Curriculum (40)

Total Marks 40.00

Truba Institute of Pharmacy was established in year 2004 and has become the leading Institute of Madhya Pradesh. The Institute is approved by PCI, AICTE, DTE and affiliated to RGPV, Bhopal.

The student intake capacity was 60 seats in B. Pharm (2004) Undergraduate (UG) program. From academic Year 2018-19, an intake of B.Pharm was increased to 100 seats; M.Pharm Pharmacology (2008) student intake capacity 15 seats & M.Pharm Pharmaceutics (2010) student intake capacity 15 seats and D.Pharm (2019) student intake capacity 60 seats.

The contents of syllabus are defined in such a manner that theory and practical are correlated with each other.

Table 1. Content of Syllabus: Courses and Mode of teaching B.Pharm I Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy First Year, Semester-I</b>							
<b>BP101T</b>	Human Anatomy and Physiology-I	3	1	-	4	4	<b>100</b>
<b>BP102T</b>	Pharm. Analysis-I	3	1	-	4	4	<b>100</b>
<b>BP103T</b>	Pharmaceutics-I	3	1	-	4	4	<b>100</b>
<b>BP104T</b>	Pharm. Inorganic Chemistry	3	1	-	4	4	<b>100</b>
<b>BP105T</b>	Communication skills*	2	-	-	2	2	<b>50</b>
<b>BP106RBT</b>	Remedial Biology*/	2	-	-	2	2	<b>50</b>
<b>BP106RMT</b>	Remedial Mathematics*	-	-	-	-	-	-
<b>BP107P</b>	Human Anatomy and Physiology-I	-	-	4	4	2	<b>50</b>
<b>BP108P</b>	Pharm. Analysis-I	-	-	4	4	2	<b>50</b>
<b>BP109P</b>	Pharmaceutics-I	-	-	4	4	2	<b>50</b>
<b>BP110P</b>	Pharm. Inorganic Chemistry	-	-	4	4	2	<b>50</b>
<b>BP111P</b>	Communication skills*	-	-	2	2	1	<b>25</b>
<b>BP112RBP</b>	Remedial Biology*	-	-	2	2	1	<b>25</b>
	<b>Total</b>	<b>16</b>	<b>04</b>	<b>20</b>	<b>40</b>	<b>29\$/30#</b>	<b>725\$/ 750#</b>

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

\$Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

\* Non University Examination (NUE)

Table 2. Content of Syllabus: Courses and Mode of teaching B.Pharm II Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy First Year, Semester-II</b>							
<b>BP201T</b>	Human Anatomy and Physiology II – Theory	3	1	-	4	4	<b>100</b>
<b>BP202T</b>	Pharmaceutical Organic Chemistry I – Theory	3	1	-	4	4	<b>100</b>
<b>BP203T</b>	Biochemistry – Theory	3	1	-	4	4	<b>100</b>
<b>BP204T</b>	Pathophysiology – Theory	3	1	-	4	4	<b>100</b>
<b>BP205T</b>	Computer Applications in Pharmacy – Theory *	3	-	-	3	3	<b>75</b>
<b>BP206T</b>	Environmental sciences – Theory*	3	-	-	3	3	<b>75</b>

<b>BP207P</b>	Human Anatomy and Physiology II –Practical	-	-	4	4	2	<b>50</b>
<b>BP208P</b>	Pharmaceutical Organic Chemistry I– Practical	-	-	4	4	2	<b>50</b>
<b>BP209P</b>	Biochemistry – Practical	-	-	4	4	2	<b>50</b>
<b>BP210P</b>	Computer Applications in Pharmacy – Practical*	-	-	2	2	1	<b>25</b>
	<b>Total</b>	<b>18</b>	<b>04</b>	<b>14</b>	<b>36</b>	<b>29</b>	<b>725</b>

\*Non University Examination (NUE)

Table 3. Content of Syllabus: Courses and Mode of teaching B.Pharm III Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-III</b>							
<b>BP301T</b>	Pharmaceutical Organic Chemistry II – Theory	3	1	-	4	4	<b>100</b>
<b>BP302T</b>	Physical Pharmaceutics I – Theory	3	1	-	4	4	<b>100</b>
<b>BP303T</b>	Pharmaceutical Microbiology – Theory	3	1	-	4	4	<b>100</b>
<b>BP304T</b>	Pharmaceutical Engineering – Theory	3	1	-	4	4	<b>100</b>
<b>BP305P</b>	Pharmaceutical Organic Chemistry II – Practical	-	-	4	4	2	<b>50</b>
<b>BP306P</b>	Physical Pharmaceutics I – Practical	-	-	4	4	2	<b>50</b>
<b>BP307P</b>	Pharmaceutical Microbiology – Practical	-	-	4	4	2	<b>50</b>
<b>BP308P</b>	Pharmaceutical Engineering –Practical	-	-	4	4	2	<b>50</b>
	<b>Total</b>	<b>12</b>	<b>04</b>	<b>16</b>	<b>32</b>	<b>24</b>	<b>600</b>

Table 4. Content of Syllabus: Courses and Mode of teaching B.Pharm IV Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-IV</b>							
<b>BP401T</b>	Pharmaceutical Organic Chemistry III– Theory	3	1	-	4	4	<b>100</b>
<b>BP402T</b>	Medicinal Chemistry I – Theory	3	1	-	4	4	<b>100</b>
<b>BP403T</b>	Physical Pharmaceutics II – Theory	3	1	-	4	4	<b>100</b>
<b>BP404T</b>	Pharmacology I – Theory	3	1	-	4	4	<b>100</b>
<b>BP405T</b>	Pharmacognosy I – Theory	3	1	-	4	4	<b>100</b>
<b>BP406P</b>	Medicinal Chemistry I – Practical	-	-	4	4	2	<b>50</b>
<b>BP407P</b>	Physical Pharmaceutics II – Practical	-	-	4	4	2	<b>50</b>
<b>BP408P</b>	Pharmacology I – Practical	-	-	4	4	2	<b>50</b>
<b>BP409P</b>	Pharmacognosy I – Practical	-	-	4	4	2	<b>50</b>

	<b>Total</b>	<b>15</b>	<b>05</b>	<b>16</b>	<b>36</b>	<b>28</b>	<b>700</b>
--	--------------	-----------	-----------	-----------	-----------	-----------	------------

Table 5. Content of Syllabus: Courses and Mode of teaching B.Pharm V Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-IV</b>							
BP501T	Medicinal Chemistry II – Theory	3	1	-	4	4	<b>100</b>
BP502T	Industrial PharmacyI– Theory	3	1	-	4	4	<b>100</b>
BP503T	Pharmacology II – Theory	3	1	-	4	4	<b>100</b>
BP504T	Pharmacognosy II – Theory	3	1	-	4	4	<b>100</b>
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	-	4	4	<b>100</b>
BP506P	Industrial PharmacyI– Practical	-	-	4	4	2	<b>50</b>
BP507P	Pharmacology II – Practical	-	-	4	4	2	<b>50</b>
BP508P	Pharmacognosy II – Practical	-	-	4	4	2	<b>50</b>
	<b>Total</b>	<b>15</b>	<b>05</b>	<b>12</b>	<b>32</b>	<b>26</b>	<b>650</b>

Table 6. Content of Syllabus: Courses and Mode of teaching B.Pharm VI Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-IV</b>							
BP601T	Medicinal Chemistry III – Theory	3	1	-	4	4	<b>100</b>
BP602T	Pharmacology III – Theory	3	1	-	4	4	<b>100</b>
BP603T	Herbal Drug Technology – Theory	3	1	-	4	4	<b>100</b>
BP604T	Biopharmaceutics and Pharmacokinetics –Theory	3	1	-	4	4	<b>100</b>
BP605T	Pharmaceutical Biotechnology-Theory	3	1	-	4	4	<b>100</b>
BP606T	Quality Assurance –Theory	3	1	-	4	4	<b>100</b>
BP607P	Medicinal chemistry III – Practical	-	-	4	4	2	<b>50</b>
BP608P	Pharmacology III – Practical	-	-	4	4	2	<b>50</b>
BP609P	Herbal Drug Technology – Practical	-	-	4	4	2	<b>50</b>

	<b>Total</b>	<b>18</b>	<b>06</b>	<b>12</b>	<b>36</b>	<b>30</b>	<b>750</b>
--	--------------	-----------	-----------	-----------	-----------	-----------	------------

Table 7. Content of Syllabus: Courses and Mode of teaching B.Pharm VII Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-IV</b>							
<b>BP701T</b>	Instrumental Methods of Analysis – Theory	3	1	-	4	4	<b>100</b>
<b>BP702T</b>	Industrial Pharmacy – Theory	3	1	-	4	4	<b>100</b>
<b>BP703T</b>	Pharmacy Practice – Theory	3	1	-	4	4	<b>100</b>
<b>BP704T</b>	Novel Drug Delivery System – Theory	3	1	-	4	4	<b>100</b>
<b>BP705 P</b>	Instrumental Methods of Analysis – Practical	-	-	4	4	2	<b>50</b>
<b>BP706 PS</b>	Practice School*	-	-	12	12	6	<b>150</b>
	<b>Total</b>	<b>12</b>	<b>04</b>	<b>16</b>	<b>32</b>	<b>24</b>	<b>600</b>

Table 8. Content of Syllabus: Courses and Mode of teaching B.Pharm VIII Semester

Course Code	Name of the course	No. of contact hours				Credits Points	Total Marks
		Lecture	Tutorial	Practical	Total		
<b>B. Pharmacy Second Year, Semester-IV</b>							
<b>BP801T</b>	Biostatistics and Research Methodology	3	1	-	4	4	<b>100</b>
<b>BP802T</b>	Social and Preventive Pharmacy	3	1	-	4	4	<b>100</b>
<b>BP803ET</b>	Pharma Marketing Management	3	1	-	4	4	<b>100</b>
<b>BP804ET</b>	Pharmaceutical Regulatory Science						
<b>BP805ET</b>	Pharmacovigilance						
<b>BP806ET</b>	Quality Control and Standardization of Herbals						
<b>BP807ET</b>	Computer Aided Drug Design						

<b>BP-808 ET</b>	Cell and Molecular Biology	3	1	-	4	4	<b>100</b>
<b>BP-809 ET</b>	Cosmetic Science						
<b>BP-810 ET</b>	Experimental Pharmacology (Pharmacological Screening Methods)						
<b>BP-811 ET</b>	Advanced Instrumentation Techniques						
<b>BP-812 ET</b>	Dietary Supplements and Nutraceuticals						
<b>BP-813 ET</b>	Pharmaceutical Product Development						
<b>BP-814 PW</b>	Project Work*						
	Total	<b>12</b>	<b>04</b>	<b>12</b>	<b>28</b>	<b>22</b>	<b>550</b>

**Course Content of courses for academic year 2022-23, 2021-22 and 2020-2021**

**BP101 Human Anatomy and Physiology-I**

Upon successful completion of the course students will be able to explain the gross morphology, structure, functions of various organs of the human body and also covers cellular and tissue level of organization. Analyse the importance of integumentary system in maintenance of homeostasis. Appraise the importance of Autonomic Nervous System. Discuss the functions of Blood and CVS.

**BP102 Pharm. Analysis I**

Upon successful completion of the course students will be able to explain principle of various titrations, concept of analytical chemistry and principle of gravimetric analysis. It also includes the principles of volumetric and electrochemical analysis which also helps in minimizing errors.

**BP103 Pharmaceutics I**

Upon successful completion of the course students will be able to recall the history of profession of pharmacy, it involves classification and explanation on the basics of different pharmaceutical dosage forms, and it also includes incompatibilities and calculations. It also helps in how to handle prescription in professional manner, also helps in formulation of various conventional dosage forms. It includes posology and calculates dose based on factors affecting Posology.

**BP104 Pharm. Inorganic Chemistry**

Upon successful completion of the course students will be able to highlight applicability of inorganic chemistry relevant to pharmaceutical sciences, differentiate various pharmacopoeias as per their contents, uses and understand their importance and use of official monographs pertaining to pharmaceutical industry. Understand significance of impurities and their method of detection and estimation in relation to stability studies of various drugs, method of their control (limit test) and use of water. Classification and use of various inorganic medical agents used as antacids, buffers, expectorants, electrolytes, antidotes, dental products, haematinics etc. Illustrate the use and application of radiopharmaceuticals.

**BP105 Communication Skill**

Upon successful completion of the course students will be able to understand basic communication skills in the communication process, Barriers to communication, perspective in communication, Elements of communication, Communication styles. It consists of Basic listening skill, writing skill, Interview skill, Presentation skill and Group Discussion.

**BP106RBT/BP106RMT Remedial Biology/Remedial Mathematics**

Upon successful completion of the course students will be able to list the various Five kingdoms of life and basis of classification, Identify Morphology of different parts of flowering and General Anatomy of Root, stem, leaf of monocotyledons and Dicotyledonous, conclude role of Body fluids and circulation with special reference to humans, it also covers the role of digestive and absorption process. It includes anatomy and physiology animal with special reference to human.

**BP201 Human Anatomy and Physiology –II**

Upon successful completion of the course students will be able to understand various homeostatic mechanisms and their imbalances in human body, it also covers the various tissues and organs of different systems of human body, conclude role of Renin Angiotensin Aldosterone System (RAAS) in kidney and disorders of kidney. It covers role of various lung volume and capacities in respiration and discuss about Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance.

**BP202****Pharm. Organic Chemistry I**

Upon successful completion of the course students will be able to understand the reaction, name the reaction and orientation of reactions. It covers account for reactivity/stability of compounds. It involves mechanism of reactions and factors affecting on reaction.

**BP203****Biochemistry**

Upon successful completion of the course students will be able to understand the molecular levels of the chemical process associated with living cells and role of various Biomolecule, it involves metabolism of nutrient molecules like carbohydrates, lipids and amino acids in physiological and pathological conditions and also includes catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes. It covers the genetic Organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins. It consist of the concept of free energy endergonic and exergonic reaction and biological significances of ATP and cAMP.

**BP204****Pathophysiology**

Upon successful completion of the course students will be able to describe the etiology and pathogenesis of the selected disease states. Name the signs and symptoms of the diseases; it includes the various complications of the diseases. It helps to understanding the Pharmacotherapeutics. Explain factors affecting on reaction, approaches for disease management, accommodate skills necessary for self-managed and lifelong learning (working independently, time management and organization).

**BP205****Computer Application In Pharmacy**

Upon successful completion of the course students will be able to know the various types of application of computers in pharmacy, know the various types of databases, know the various applications of databases in pharmacy, know the various applications of Bioinformatics, and know computer application in clinical studies.

**BP206****Environmental Science**

Upon successful completion of the course students will be able to clarify basics of environment like ecology, ecosystem, food chain, food web and ecological pyramids, understand the current problems of environment and how to solve them, to know and aware about factors of environmental pollution and hazards of disposal wastes from hospitals and Pharm. industries, role of individual in conservation of natural resources and effort to save the environment.

**BP301T****Pharmaceutical Organic Chemistry**

Upon successful completion of the course students will be able to understand various molecular representations and their inter conversions, to know relevance of stereochemistry and its significance in Pharm. Sciences. Understand about conformational Analysis and draw various conformational structures for different molecules. To learn mechanism and applications of rearrangement of electron deficient and electron rich systems and basic concepts in pericyclic reactions. To understand the chemistry and preparation of amino acids and polypeptides.

**BP302T****Physical Pharmaceutics**

Upon successful completion of the course students will be able to understand the interrelationships between the physicochemical properties of a drug, its dosage form, route of administration and bioavailability, explain and apply the key physical pharmacy concepts of solubility and dissolution, partitioning phenomena, surface phenomena. Acquire knowledge in Physical principles of states of matter and phase rule. Explain various laws and theories of gases and correlate them with formation of aerosols. Illustrate the applications of thermodynamics in the pharmacy.

**BP303T****Pharmaceutical Microbiology**

Upon successful completion of the course students will be able to understand the concept of microbiology and various microbes to know about historical developments and contributions of scientists in the field of microbiology, to understand the use of microorganism in pharmacy, to know about disinfectant classification, their mechanism of action and their evaluations. To gain the knowledge of various basic aspects of immunology.

**BP304T****Pharmaceutical Engineering**

Upon successful completion of the course students will be able to understand molecular diffusion in gases and liquids, to understand the concept of drying and classification dryers with respect to their applications in pharmacy. To learn various heat transfer techniques including their mechanism and applications in Pharmacy including the illustration of crystallizers. To know elucidate graphical representation of various equipment for unit operation; understand the principles, mechanisms and theories of different unit operations.

**BP401T                    Pharmaceutical Organic Chemistry III**

Upon successful completion of the course students will be able to understand various molecular representations and their inter conversions, to know relevance of stereochemistry and its significance in Pharm. Sciences. Understand about conformational Analysis and draw various conformational structures for different molecules. To learn mechanism and applications of rearrangement of electron deficient and electron rich systems and basic concepts in pericyclic reactions. To understand the chemistry and preparation of amino acids and polypeptides.

**BP402T                    Medicinal Chemistry I**

On successful completion of the course the student should able to establish correlation of physicochemical properties affecting drug action and pharmacokinetics, explain different types of receptors, forces involved in drug receptor interaction and signal transduction mechanism discuss classification, nomenclature, structure activity relationship, mechanism of action and synthesis including adrenergic agents, cholinergic agents and diuretics, describe adverse effects, therapeutic uses and recent developments in diuretics and drugs acting on autonomic nervous system and cardiovascular system.

**BP403T                    Physical Pharmaceutics II**

Upon successful completion of the course students will be able to understand the interrelationships between the physiochemical properties of a drug, its dosage form, route of administration and bioavailability, explain and apply the key physical pharmacy concepts of solubility and dissolution, partitioning phenomena, surface phenomena. Acquire knowledge in Physical principles of states of matter and phase rule. Explain various laws and theories of gases and correlate them with formation of aerosols. Illustrate the applications of thermodynamics in the pharmacy.

**BP404T                    Pharmacology I**

On successful completion of the course the student should able to define physiological basis of autonomic nervous system (ANS) and endocrine system, summarize the drugs acting on ANS and endocrine system, analyze pharmacotherapy of glaucoma and myasthenia gravis, justify pharmacotherapy of DM, Discuss recent advanced in the field of neurology and endocrinology

**BP405T                    Pharmacognosy I**

On successful completion of the course the student should able to define the various terms related to extraction of drugs, illustrate principles, procedures and significance of quality parameters of herbal drugs, identification of adulterants, explain applications of extraction techniques, discuss the isolation procedures of crude drugs.

**BP501T                    Medicinal Chemistry II**

On successful completion of the course the student should able to understand drug metabolism and extend its application to drug design, discuss classification, nomenclature, structure activity relationship, mechanism of action and synthesis of drugs acting on Central Nervous System, study and summarize classification, nomenclature, structure activity relationship, mechanism of action and synthesis of drugs acting on Local anaesthetics and oral Anti-hyperglycaemic drugs, discuss classification, nomenclature, structure activity relationship, mechanism of action and synthesis of drugs acting on drugs used in Neurodegenerative diseases and in migraine, study and Compare different Diagnostic agents.

**BP502T                    Industrial Pharmacy**

On successful completion of the course the student should able to explain principles, theories and stability considerations of disperse systems, describe suspensions its types, excipients used, theories, formulation and evaluation of suspensions, summarize emulsion its properties theories, excipients, formulation, evaluation and stability issues thereof, explain anatomy and physiology of skin with Percutaneous absorption, explain semi-solids its bases, formulation, penetration enhancers and evaluation thereof, construct layout for manufacturing of liquids and semi-solids as per schedule M.

**BP503T                    Pharmacology II**

On successful completion of the course the student should able to recall pathophysiological role of central nervous system (CNS) neurotransmitters and neuromodulators, compare and contrast pharmacology of general and local anaesthetics, identify neurochemical basis and plan pharmacotherapy of neurodegenerative diseases, categorize and justify pharmacotherapy of pain, inflammation, respiratory and gastrointestinal (GI) disorders, discuss recent advanced in the field of psychopharmacology.

**BP504T                    Pharmacognosy II**

On successful completion of the course the student should able to relate physical and chemical methods of crude drug analysis, explain role of natural products as an excipients, apply characterizations methods of natural products, analyze the structure of secondary metabolites from spectroscopy, elaborate marine drugs and natural drug discovery.

**BP505T                    Pharmaceutical Jurisprudence**

On successful completion of the course the student should able to understand the significance and relevance of Pharm. laws in India, describe the qualifications for membership and the make-up of the Board, understand the responsibilities of the board, understand significance of Schedule M and Schedule Y related Manufacturing and clinical trials, gain the knowledge about Patents, procedure for patent application and IPR.

**BP601T                    Medicinal Chemistry III**

On successful completion of the course the student should able to understand on the structure, chemistry and therapeutic value of drugs. The subject emphasis on modern techniques of rational drug design like quantitative structure activity relationship (QSAR), Prodrug concept, combinatorial chemistry and Computer aided drug design (CADD). The subject also emphasizes on the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of important drugs.

**BP602 T.                    Pharmacology-III**

On successful completion of the course the student should able to recall various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immunopharmacology and in addition,emphasis on the principles of toxicology and chronopharmacology.

**BP603 T. Herbal Drug Technology**

On successful completion of the course the student should able to recall knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs

**BP 604 T. Biopharmaceutics and Pharmacokinetics**

On successful completion of the course the student should able understand the basic concepts in biopharmaceutics and pharmacokinetics and their significance. Use of plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination and understand the concepts of bioavailability and bioequivalence of drug products and their significance; various pharmacokinetic parameters, their significance & applications.

**BP 605 T. Pharmaceutical Biotechnology**

On successful completion of the course the student should able understand the importance of Immobilized enzymes in Pharmaceutical Industries; Genetic engineering applications in relation to production of pharmaceuticals; Importance of Monoclonal antibodies in Industries; Appreciate the use of microorganisms in fermentation technology.

**BP606T Pharmaceutical Quality Assurance**

On successful completion of the course the student should able understand the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It deals with the important aspects like cGMP, QC tests, documentation, quality certifications and regulatory affairs scope of quality certifications applicable to pharmaceutical industries.

**BP701T. Instrumental Methods of Analysis**

On successful completion of the course the student should able to understand application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.

**BP 702 T. Industrial Pharmacy II**

On successful completion of the course the student should able to know the process of pilot plant and scale up of pharmaceutical dosage forms; Understand the process of technology transfer from lab scale to commercial batch; Know different Laws and Acts that regulate pharmaceutical industry; Understand the approval process and regulatory requirements for drug products.

**BP 703T. Pharmacy Practice**

On successful completion of the course the student should able to know various drug distribution methods in a hospital; appreciate the pharmacy stores management and inventory control; monitor drug therapy of patient through medication chart review and clinical review obtain medication history interview and counsel the patients; identify drug related problems, detect and assess adverse drug reactions; interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states, know pharmaceutical care services do patient counseling in community pharmacy; appreciate the concept of Rational drug therapy.

**BP 704T Novel Drug Delivery Systems**

On successful completion of the course the student should able to understand various approaches for development of novel drug delivery systems and understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation.

**BP801T. Biostatistics and Research Methodology**

On successful completion of the course the student should able to understand descriptive statistics, Graphics, Correlation, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA, Introduction to Design of Experiments, Phases of Clinical trials and Observational and Experimental studies, SPSS, R and MINITAB statistical software's, analyzing the statistical data using Excel.

**BP 802T Social and Preventive Pharmacy**

On successful completion of the course the student should able to acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. Have a critical way of thinking based on current healthcare development. Evaluate alternative ways of solving problems related to health and pharmaceutical issues.

**BP803ET. Pharma Marketing Management**

On successful completion of the course it will emphasize on understanding of marketing concepts and techniques and their applications in the pharmaceutical industry.

**BP804ET Pharmaceutical Regulatory Science**

On successful completion of the course student shall be able to know about the process of drug discovery and development know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals know the regulatory approval process and their registration in Indian and international markets.

**BP805ET**

**Pharmacovigilance**

On successful completion of the course it is expected that students will be able to understand importance of drug safety monitoring, history and development of Pharmacovigilance National and international scenario of pharmacovigilance. Detection of new adverse drug reactions and their assessment. International standards for classification of diseases and drugs. Adverse drug reaction reporting systems and communication in pharmacovigilance. Methods to generate safety data during pre clinical, clinical and post approval phases of drugs' life cycle.

**BP806ET**

**Quality Control and Standardization of Herbals**

Upon completion of the subject student shall be able to know WHO guidelines for quality control of herbal drugs; know Quality assurance in herbal drug industry; know the regulatory approval process and their registration in Indian and international markets appreciate EU and ICH guidelines for quality control of herbal drugs.

**BP807**

**ET Computer Aided Drug Design**

Upon completion of the course, the student shall be able to understand design and discovery of lead molecules. The role of drug design in drug discovery process. The concept of QSAR and docking and various strategies to develop new drug like molecules.

**BP808ET**

**Cell and Molecular Biology**

Upon completion of the course, the student shall be able to summarize cell and molecular biology history; summarize cellular functioning and composition. Describe the chemical foundations of cell biology; summarize the DNA properties of cell biology and describe protein structure and function.

**BP809ET.**

**Cosmetic Science**

Upon completion of the course, the student shall be able to understand the applications of cosmeceutical products; role of Surfactants, rheology modifiers, humectants, emollients in cosmetic manufacturing. Cosmetic problems associated with Hair and scalp: Dandruff, Hair fall causes Cosmetic problems associated with skin: blemishes, wrinkles, acne, prickly heat and body odor.

**BP810 ET**

**Pharmacological Screening Methods**

Upon completion of the course, the student shall be able to understand the applications of various commonly used laboratory animals. Appreciate and demonstrate the various screening methods used in preclinical research. Appreciate and demonstrate the importance of biostatistics and research methodology.

**BP811ET**

**Advanced Instrumentation Technique**

Upon completion of the course the student shall be able to understand the advanced instruments used and its applications in drug analysis; understand the chromatographic separation and analysis of drugs.and understand the calibration of various analytical instruments.

**BP812ET**

**Dietary Supplements and Nutraceuticals**

Upon completion of the course the student shall be able to understand the need of supplements by the different group of people to maintain healthy life; understand the outcome of deficiencies in dietary supplements and appreciate the components in dietary supplements and the application.

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

Institute Marks : 20.00

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Calibration of g	Lecture on Cali	11/01/2023	Ms. Rukshar/AP/TIP	57	PO2
2	Micro Biome w	Lecture on Mic	09/01/2023	Mr Vipul Patel/Visiting facult	65	PO7
3	Introduction to	Lecture on Intr	21/01/2023	Ms Sonika Prajapati/AP/TIF	54	PO1
4	Phrases of con	Lecture Phrase	16/02/2023	Dr. Archana Bagre /AP/TIP	72	PO9
5	Terminology aq	Lecture on Terr	17/02/2023	Mrs Kajal Khan/AP/TIP	07	PO1
6	Identification ol	Video Lecture c	11/08/2022	Mr Shubham Vishwakarma/	35	PO2
7	Water sample :	Demonstration	25/08/2022	Mr Vipul Patel/Visiting facult	58	PO10
8	Types of Hazar	Guest Lecture	12/09/2022	Ms Neetu Chourasia /AP/TI	36	PO6
9	Practically derr	Demonstration	08/10/2022	Mr Shubham Vishwakarma/	56	PO10
10	Industrial visit :	Industrial visit I	10/12/2022	Dr. Surendra K. Jain & Dr. F	48	PO1
11	Clinical Trials:	Video Lecture c	26/11/2022	Ms Neetu Chourasia /AP/TI	48	PO1
12	Technical Pres	Guest Lecture	14/10/2022	Dr. Subhendu Saha Directo	79	PO10
13	National List of	Lecture on Nat	02/11/2022	Ms Seerat Anwar/AP/TIP	62	PO8
14	Basics of Interf	Guest Lecture	16/11/2022	Dr Neeraj Upmanyu / SAGE	85	PO1
15	Using Budding	Guest Lecture	15/10/2022	Dr. Chandan Sahi Associate	79	PO6
16	"Intellectual Pr	Online Lecture	02/11/2022	Mr Bharat Suryawanshi	152	PO6
17	Awareness ses	Expert Lecture	01/11/2022	Dr. P. N. Gupta Scientist-E	65	PO3
18	Hands-on train	Workshop on H	06/07/2022	Dr. Prabhat Jain and Dr Ne	56	PO10
19	Chemical struc	Workshop on C	27/02/2023	Mr Deepak Jain /AP/TIP	45	PO10
20	Precautions du	Video Lecture c	02/03/2023	Ms Sonika Prajapati /AP/TIF	55	PO1
21	Flow properties:	Video Lecture c	10/03/2023	Mr Keshav Sahu /AP/TIP	48	PO1
22	Food interactio	Guest Lecture	15/03/2023	Consultant and nutritionist	67	PO6
23	Visit to Medicin	Visit: Visit to M	28/02/2023	Mrs Kanika Dhote/AP/TIP	45	PO6
24	Biomedical Wa	Visit in MP poll	12/03/2023	VAC	50	PO6
25	Adverse reacti	Guest Lecture	18/01/2023	Dr. Dipankar Bhadra Head I	55	PO2
26	Research and	Guest Lecture	28/01/2023	Dr. Aswini Mishra BU, Bhop	42	PO3
27	Basics of Phari	Video Lecture c	09/02/2023	Mr Vinod Kumar Dhote /AP/	64	PO3
28	Software applic	Workshop on S	10/02/2023	Dr Archana Bagre/AP/TIP	48	PO10
29	Social Awaren	Awareness rall	24/11/2022	Mr. MD Abdul Ali/AP/TIP	160	PO4, PO5, PO
30	Pharmacovigil	Expert Lecture	29/11/2022	Ms Mitali Jain P VC E scien	110	PO7
31	Start- up/ Entre	Expert Lecture	16/08/2022	Mr Hemant Dhakar MD, SS	135	PO5

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Calibration of V	Workshop on C	22/11/2021	Mr. Narendra Patel/ AP/TIP	64	PO10, PO3
2	Marketed Form	Assignment	25/11/2021	Mr. Abdul Ali / AP/TIP	56	PO1
3	Radioactive ele	Video Lecture c	09/12/2021	Mr. Lalmani Lodhi / AP/TIP	39	PO6, PO1
4	Presentation sl	Guest Lecture	16/12/2021	Ms. Laxmi Shrivastava / AP	72	PO9
5	Recent update	Video Lecture c	05/12/2021	Mr Vipul Patel /AP/TIP	37	PO1, PO2
6	Applications of	Video Lecture c	07/08/2021	Mr Shubham Vishwakarma/	35	PO1, PO2
7	Water Analysis	Demonstration	20/08/2021	Mr Vipul Patel /AP/TIP	58	PO10
8	Safety aspects	Video Lecture c	05/10/2021	Ms. Khushbu Rani Sahu /AI	36	PO5, PO6
9	Practically derr	Video Lecture c	09/09/2021	Mr. Nitin Saini/ AP/TIP	56	PO10
10	Industrial Visit	Visit: Industrial	15/09/2021	NewLife Pharma, Mandidee	48	PO9, PO1
11	Drug and Rece	Video Lecture c	05/10/2021	Mr. Mahipal Patel /AP/TIP	48	PO1
12	HPTLC: Techn	Guest Lecture	04/09/2021	Mr Ashish Bansod Director ,	79	PO10
13	Regulation anc	Guest Lecture	14/09/2021	Dr. Ashish Singhai Associat	62	PO8
14	Basics of Inter	Video Lecture c	28/09/2021	Mr Shubham Vishwakarma	85	PO1
15	SUPAC Guidel	Video Lecture c	20/09/2021	Ms Niharika Thakur/AP/TIP	64	PO6
16	Principles and	Guest Lecture	08/07/2021	Dr Piyush Deokar Product M	256	PO3
17	Basic organ Id	Video Lecture I	22/03/2022	Ms. Manisha Bharti /AP/TIP	52	PO1
18	Prevention of c	VAC: Preventic	26/03/2022	Ms Sonika Prajapati/AP/TIF	48	PO6
19	Research stori	Video Lecture c	13/04/2022	Ms Neetu Chourasia/AP/TIF	39	PO1
20	Detection of Bl	Video Lecture c	18/04/2022	Ms Manisha Bharti/AP/TIP	62	PO10
21	MS Excel: prep	Workshop: MS	21/03/2022	Ms Shamila Khan/AP/TIEIT	65	PO9
22	"Ankur program	Activity: "Ankur	01/03/202205/I	Ms. Kanika Dhote /AP/TIP	36	PO5
23	History of Phar	Expert Lecture	17/03/2022	Dr. Sushanta K.Panda Prof	185	PO1, PO8
24	Pragmatic appl	Guest Lecture	17/02/2022	Dr. Ashwani Mishra Assistant	86	PO6
25	Visit to Medicin	Visit: Visit to M	25/02/2022	Ms Kanika Dhote/AP/TIP	65	PO6
26	Biomedical Wa	VAC : Biomedic	08/03/2022	Mr Keshav Sahu/AP/TIP	57	PO6
27	Commercial ci	Expert lecture c	11/03/2022	Dr. Shashank K. Singh, Ser	47	PO3, PO7
28	IVIVC: Introduc	Expert lecture c	20/05/2022	Dr. Keerti Jain Assistant Pr	79	PO4
29	Delivery of Bio:	Video Lecture c	12/03/2022	Mr. Vinod Kumar Dhote/AP/	64	PO6
30	Handling of So	Workshop on F	10/03/2022	Ms Niharika Thakur/AP/TIP	48	PO1
31	One Day Traini	Training: One I	20/04/2022	VAC	160	PO4, PO5, PO

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Introduction to	Online Lecture	10/10/2020	Ms. Ranu Sharma/AP/TIP	54	PO1
2	The Essence c	Online Lecture	15/10/2020	Ms Tasneem Jahan TIEIT	72	PO9
3	Probiotics: Intr	Online Lecture	26/09/2020	Ms Namita Badoniya/AP/TII	58	PO1, PO6
4	Identification o	Video Lecture (	28/08/2020	Mr. Ajay Gupta/ AP/TIP	35	PO1, PO2
5	Types of Hazar	Online Lecture	12/09/2020	Mr. Hargovind Garg/AP/TIP	36	PO1, PO6
6	Practical aspec	Online Expert l	12/08/2020	Mr Ankit Jain Bangalore	48	PO1
7	Challenges an	Webinar on Ch	18/08/2020	Dr Babu UV Head Phytoch	75	PO1, PO6
8	understand diff	Online Lecture	15/10/2020	Mr Vinod Kumar Dhote /AP/	65	PO6
9	Chemical struc	Online Worksh	25/11/2020	Mr. Ajay Gupta/AP/TIP	45	PO10
10	Precautions du	Video Lecture:	02/03/2021	Ms. Ranu Sharma/AP/TIP	55	PO1
11	Molecular Docl	Webinar: Molec	17/05/2021	Dr. Robert J. Doerksen Dep	105	PO6,PO10
12	Pharmaceutica	Online Worksh	08/06/2021	Dr. Akash Chourasia, Birla I	90	PO8, PO10
13	Challenges in c	Online Expert l	25/05/2021	Dr. M.S. Sudheesh Associa	110	PO7
14	How to prepare	Video lecture :	16/01/2021	Mr. H.G.Garg /AP/TIP	85	PO1, PO8

2.1.3 Adherence to Academic Calendar (10)

Institute Marks : 10.00

#### Adherence to Academic Calendar

The University gives its own Academic calendar in the beginning of the academic session which contains major activities and proceedings of the University like schedule of Internal Examinations and University Theory and Practical Examinations. It also gives the dates for commencement and end of teaching days and probable dates of Form filling. From time to time, the dates for uploading the internal marks are also notified.

Keeping the University Academic Calendar as a reference, in the beginning of every academic session, an academic calendar of the Institute is prepared with an objective to plan the academic activities to be undertaken in the coming session. It is finalized by the Academic Advisory Board. The calendar specifies the number of days available for teaching excluding Holidays, Sundays and Examination days. It also gives tentative dates for conduction of internal theory and practical examinations. The planned dates are subject to change as per the University circular related to examinations. The teaching plan is prepared adhering to the academic calendar and given to the students in the beginning of the semester. Other activities including various cultural events, extra and co-curricular events, and health campaigns and sports events are also planned in advance (Table. 9).

Table 9. Adherence to Academic Calendar

Events	B. Pharm I year													Adherence	
	Scheduled date as per Academic calendar						Actual Date of the event								
	2020-21		2021-22		2022-23		2020-21		2021-22		2022-23				
Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem		
<b>Duration of Semester</b>	July-Dec 2020	January-June 2021	July-December 2021	January-June 2022	July-December 2022	January-June 2023	July-December 2020	January-June 2021	July -December 2021	January-June 2022	July -December 2022	January-June 2023	July -December 2022	Yes	
<b>Commencement of Classes</b>	1 November 2020	22 March 2021	25 November 2021	16 March 2022	15 December 2022	14 April 2023	16-October 2020	22-March-21	17-November 2021	16 March 2022	15 December 2022	14 April 2023	15 December 2022	Yes	
<b>First Sessional Exam</b>	11-15 January 2021	16-30 April 2021	3-7 January 2022	5-10 April 2022	16-21 January 2023	1-6 May 2023	11-15 January 2021	16-30 April 2021	3-7 January 2022	5-10 April 2022	16-21 January 2023	1-6 May 2023	14 April 2023	Yes	
<b>Second Sessional Exam</b>	15-19 February 2021	26-29 May 2021	7-11 February 2022	20-25 May 2022	16-22 February 2023	15-20 June 2023	15-19 February 2021	26-29 May 2021	7-11 February 2022	20-25 May 2022	16-22 February 2023	15-20 June 2023	14 April 2023	Yes	
<b>Submission of Exam Form Without Late Fees</b>	15-21 February 2021	7-14 June 2021	7-14 February 2022	1-7 June 2022	10 February -6 March 2023	20 June - 3 July 2023	15-21 February 2021	7-14 June 2021	7-14 February 2022	1-7 June 2022	10 Feb - 6 March 2023	20 June – 3 July 2023	14 April 2023	Yes	
<b>Submission of Exam Form with Late Fees</b>	22-24 February 2021	15-18 June 2021	15-17 February 2022	8-12 June 2022	7 -12 March 2023	4 –8 July 2023	22-24 February 2021	15-18 June 2021	15-17 February 2022	8-12 June 2022	7-12 March 2023	4 –8 July 2023	14 April 2023	Yes	
<b>End of Teaching and Lab Record/ Sessional Submission</b>	25 February 2021	12 July 2021	17 February 2022	6 July 2022	10 March 2023	4 July 2023	25-February-21	12-July-21	17-February-2022	6 July 2022	10 March 2023	4 July 2023	14 April 2023	Yes	
<b>Submission of Internal Marks to University</b>	Up to 15 March 2021	Up to 15 July 2021	Up to 10 March 2022	Up to 8 July 2022	11 February -13 March 2023	21 June -21 July 2023	Up to 15 March 2021	Up to 15 July 2021	Up to 10 March 2022	Up to 8 July 2022	11 February -13 March 2023	21 June -21 July 2023	14 April 2023	Yes	
<b>End Semester Practical Viva Voce Exams</b>	1-5 March 2021	19-24 July 2021	22-26 February 2022	12-17 July 2022	26 March -3 April 2023	18-22 July 2023	1-5 March 2021	19-24 July 2021	22-26 Feb 2022	12-17 July 2022	26 March- 3 April 2023	18-22 July 2023	14 April 2023	Yes	
<b>End Semester Theory Exam</b>	6-16 March 2021	27 July -15 August 2021	28 Feb -11 March 2022	18 -29 July 2022	14-25 March 2023	10-17 July 2023	6-16 March 2021	27 July - 15 August 2021	28 February 11 March 2022	18-29 July 2022	14-25 March 2023	10-17 July 2023	14 April 2023	Yes	
<b>Declaration of Results of All Semester</b>	April 2021	September 2021	End of March 2022	End of August 2022	End of April 2023	End of August 2023	April 2021	September 2021	March-2022	August 2022	April 2023	End of August 2023	14 April 2023	Yes	



**ACADEMIC CALENDAR (Jan -June 2023)**  
**Bachelor of Pharmacy – II Semester**

S. No.	Particular	Dates
1.	Duration of Semester	Jan- June 2023
2.	Online Registration and Fees Submission	April 2023
3.	Course File Approval	10 April 2023
4.	Commencement of Classes	05 April 2023
5.	Dispatch of Short Attendance Letter	5 May 2023
6.	First Faculty Feedback Form Students (Participating Students Should Have Attendance Greater Than 50%)	5 May 2023
7.	First Sessional Exam (Minimum 2 Unit)	01-06 May 2023
8.	Display First Mid Semester Marks to Students	Within a week after exam
9.	Second Faculty Feedback Form from Students (Participating Students Should Have Attendance Greater Than 50%)	22 June 2023
10.	Second Sessional Exam	15-20 June 2023
11.	Display Second Mid Semester Marks to Students	Within a week after exam
12.	End of Teaching and Lab Record/ Sessional Submission	04 July 2023
13.	Submission of Exam Form Without Late Fees	20 June-03 July 2023
14.	Submission of Exam Form with Late Fees	04-08 July 2023
15.	Submission of Internal Marks to University	21 June-21 July 2023
16.	End Semester Theory Exam	10-17 July 2023
17.	End Semester Practical Viva Voce Exams	18-22 July 2023
18.	Submission of Practical Marks to University	On The Date of Practical Exam
19.	Declaration of Results	End of August 2023

Note: All are expected to seriously follow the academic calendar and be very particular on the important dates.

- ❖ 80% class room Attendance is compulsory and in no case includes any medical/sports or special leave.
- ❖ TGs are required to inform the students as well as their parents about the consequences of less attendance.
- ❖ During sessional examination, classes in the remaining periods will be conducted as per schedule.
- ❖ Depending upon monthly progress of syllabus extra class would be organized by department during official holidays.

Fig.3. Sample Academic Calender of event B.Pharm



**ACADEMIC CALENDAR (July-Dec 2022)**  
**Bachelor of Pharmacy – I Semester**

S. No.	Particular	Dates
1.	Duration of Semester	July-Dec 2022
2.	Course File Approval	10-12-2022
3.	Commencement of Classes	15-12-2022
4.	Dispatch of Short Attendance Letter	02-02-2023
5.	First Faculty Feedback Form Students (Participating Students Should Have Attendance Greater Than 50%)	15-01-2023
6.	First Sessional Exam (Minimum 2 Unit)	16-21 <sup>st</sup> Jan 2023
7.	Display First Mid Semester Marks to Students	Within a week after exam
8.	Second Faculty Feedback Form from Students (Participating Students Should Have Attendance Greater Than 50%)	14Feb2023
9.	Holi Vacation	As Per RGPV University
10.	Second Sessional Exam	16 <sup>th</sup> -22 <sup>nd</sup> Feb 2023
11.	Display Second Mid Semester Marks to Students	Within a week after exam
12.	End of Teaching and Lab Record/ Sessional Submission	10 <sup>th</sup> March 2023
13.	Submission of Exam Form Without Late Fees	10 <sup>th</sup> Feb- 06 <sup>th</sup> March 2023
14.	Submission of Exam Form with Late Fees	07 <sup>th</sup> March- 12 <sup>th</sup> March 2023
15.	Submission of Internal Marks to University	11 <sup>th</sup> Feb- 13 <sup>th</sup> March 2023
16.	End Semester Theory Exam	14 <sup>th</sup> , 25 <sup>th</sup> March 2023
17.	End Semester Practical Viva Voce Exams	26 <sup>th</sup> March- 3 <sup>rd</sup> April 2023
18.	Submission of Practical Marks to University	On The Date of Practical Exam
19.	Summer Internship/ End Semester Break	May
20.	Declaration of Results of All Semester	End of April

Note: All are expected to seriously follow the academic calendar and be very particular on the important dates.

- ❖ 80% class room Attendance is compulsory and in no case includes any medical/sports or special leave.
- ❖ TGs are required to inform the students as well as their parents about the consequences of less attendance.
- ❖ During sessional examination, classes in the remaining periods will be conducted as per schedule.
- ❖ Depending upon monthly progress of syllabus extra class would be organized by department during official holidays.

Fig.4. Sample Academic Calender of event B.Pharm

### 1. Teaching - Learning Processes

#### 1. Describe Processes followed to improve quality of Teaching & Learning

- The whole process/system for Teaching and Learning Quality Improvement is shown in this point (Fig. 2.1)
- The Academic Calendar of the institute is based on Syllabus prescribed by the University. The calendar of events of the academic calendar incorporates various industrial visits, guest lectures, technical competitions and short-term courses. The calendar of events is incorporated in framing the Timetable.
- A sample academic calendar is shown in Fig 2.2
- The academic calendar events and time table are shared with the students. The faculty prepares the lesson plan for the allotted subject. For better delivery of teaching learning process, the faculty prepares the course plan and learning methodology for the allotted subject.

- The faculty conducts the classes as per the lecture and course plan. Online feedback from the students are collected and analyzed by the quality improvement committee. If any inconsistencies are found by AC in the teaching learning process, the concerned faculties are advised to modify the teaching methodology and also attend Faculty development programmes.
- Two internal assessments are conducted for a particular subject per semester. The attainments of COs are analyzed for taking remedial actions. Remedial actions include identification of slow and fast learners.
- For the slow learners ( $\leq 40\%$  marks in class test) the following methods of improvement are adopted- Peer teaching, Counseling, mentoring, intimation to parents and conducting extra classes.
- Fast learners ( $> 75\%$  marks in class test) are motivated to continue the achieved Excellency and they are encouraged to participate in co-curricular and extra-curricular activities.

The process for **Teaching-Learning and Quality Improvement** in the department is focused on following broad criteria

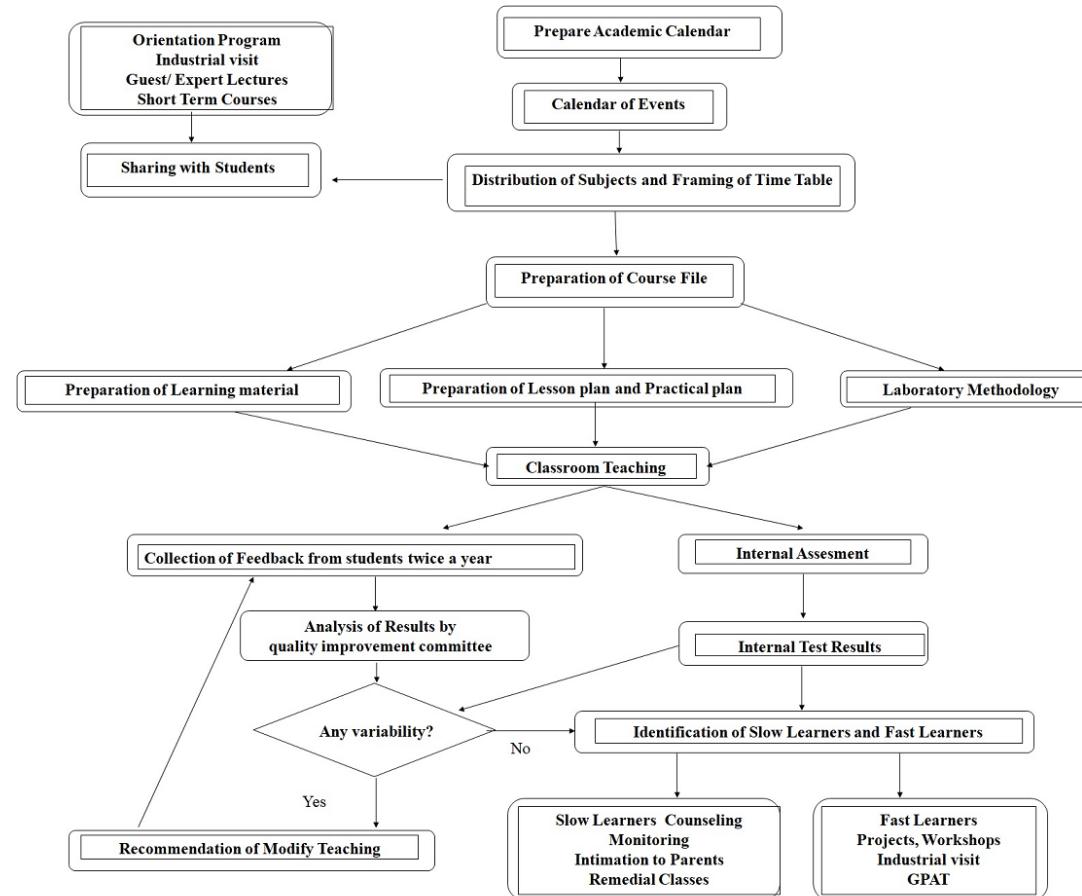


Fig. 5 The process of Teaching-Learning and Quality Improvement

A. Maintenance of Academic discipline: - The academic discipline in the institution is maintained through:

**a. Adherence to Academic calendar:** The academic calendar for each semester is made available to the faculty and students before commencement of the semester. It is designed in such a way so that (i) all the stake holders adhere to the calendar and (ii) the academic activities are carried out for minimum 90 days in each semester.

**b. Adherence to Lecture plan:** Based on the institute academic calendar (in conformity with University academic calendar) course syllabus, course outcomes and lecture plans are prepared by the respective course teachers before the commencement of the semester and are made available to the students. Attendance of students is maintained in attendance registers.



**TRUBA INSTITUTE OF PHARMACY, BIOPAL**  
Karond-Gandhi Nagar By Pass Road, Bhopal 462038, Phone No: 0755-2734691-92-93  
Email: [www.trubapharmacy.in](http://www.trubapharmacy.in)

**ACADEMIC CALENDAR (Jan -June 2023)**  
**Bachelor of Pharmacy – IV Semester**

S. No.	Particular	Dates
20.	Duration of Semester	Jan- June 2023
21.	Online Registration and Fees Submission	16 Feb 2023 to 20 Feb 2023
22.	Course File Approval	16 Feb 2023
23.	Commencement of Classes	17-02-2023
24.	Dispatch of Short Attendance Letter	06-03-2023
25.	Holi Vacation	As Per RGPV University
26.	First Faculty Feedback Form Students (Participating Students Should Have Attendance Greater Than 50%)	20-03-2023
27.	First Mid Semester Exam (Minimum 2 Unit)	20-26 March 2023
28.	Display First Mid Semester Marks to Students	Within a week after exam
29.	Second Faculty Feedback Form from Students (Participating Students Should Have Attendance Greater Than 50%)	05-04-2023
30.	Submission of Exam Form Without Late Fees	29/04/2023-20/05/2023
31.	Submission of Exam Form with Late Fees	21-27 MAY 2023
32.	Second Mid Semester Exam	24-29 APR 2023
33.	Display Second Mid Semester Marks to Students	Within a week after exam
34.	End of Teaching and Lab Record/ Sessional Submission	20 May 2023
35.	Submission of Sessional Marks to University	06 to 12 May 2023
36.	End Semester Theory Exam	29 MAY-12 JUNE 2023
37.	End Semester Practical Viva Voce Exams	13-20 JUNE 2023
38.	Submission of Practical Marks to University	On The Date of Practical Exam
39.	Summer Internship/ End Semester Break	1 <sup>st</sup> June to 30 June
40.	Declaration of Results of All Semester	June 2023
41.	Total Number of Effective Working Days	100

**Note:** All are expected to seriously follow the academic calendar and be very particular on the important dates.  
 ♦ 80% class room Attendance is compulsory and in no case includes any medical/sports or special leave.  
 ♦ TGs are required to inform the students as well as their parents about the consequences of less attendance.  
 ♦ During sessional examination, classes in the remaining periods will be conducted as per schedule.



Academic In-Charge  
Dr. Shalini Bajaj



Principal  
Dr. Rajesh S Pawar



Director  
Dr. Surendra K Jain

Fig. 6 Sample of Academic calendar

**c. Maintenance of Course File:-**For each course, a course file is prepared and maintained by the concerned faculty member and updated timely.

**B. Use of various instructional methods using pedagogical initiatives:**

The faculty members prepare lesson plans, presentations, and make available course materials for the allocated subjects and also upload it to the online portal, enabling the easy access of the content for the student.

**i. E-learning:** Students are encouraged to enroll for various online courses offered by different content providers like NPTEL, Edx, Coursera etc. College provides requisite support system for the students participating in these courses to enhance their skills.

**ii Academic Infrastructure Enhancement:** Institute offers well equipped comfortable class rooms, laboratories and smart classes. Arrangement is made to put students in smaller groups in the laboratory to make the learning process more effective.



Fig.7 Smart Class for Students

**iii. Interactive Lecture Delivery:** Students are encouraged to interact during the lecture hours to clarify their doubts. Further, the participation of students in the class is enhanced through pedagogical initiatives like quizzes, sessional paper, presentations, assignments etc.

**Instructional delivery** In order to make teaching and learning process more effective, the subject teacher is taking care of prescribed time available for the corresponding semester in accordance with academic calendar.

- The theory lectures and practical classes are planned by the faculty as per the weightage of the topics allotted in curriculum design.
- The handwritten notes are given to the students before delivering the lectures so that students come for the lecture with the prerequisite knowledge about the topic.
- The subject teacher makes the connection between theory and practical classes in the way that student can understand the application of theoretical concept in real world situation.
- All the faculties are highly qualified with rich experience in academics, research work & industry.
- The Faculties are also promoted to undergo the faculty development programmes, refreshers courses, professional trainings etc in order to make the teaching and learning process more classical with latest trends in the corresponding subject area. The details of remodeling of new concept in teaching process by the faculty members are shown in below table

Table 10 Innovations by the Faculty in Instruction delivery

Instructional Method	Description
Interactive Lectures	Lectures are delivered in a way to make it more interactive to the large number of students. The prerequisite knowledge of the topic, critical information, history, background, theories and evolutions has provided to students to make interactive lectures at both ends. The course objectives are well attained while delivering the lectures by defining the proper lesson plan for the Subject.
Presentations	Presentations are delivered using modern tools like Smart boards, and covered with models and animation to enhance the concepts more effectively to the students. Presentations are always followed by the discussions based on the topic taught thus improving communication skills of students.
Demonstrations	Practical demonstration of applicability of theoretical concept in real world is given through program execution, charts, monograms and videos. Students are engaged completely for assigned lab hours. Demonstrations strengthen the lifelong learning capability of students.
Webinars	Webinars are engaged for students to cover the contents beyond the syllabus.
Group Discussions	Group discussions are useful for students in order to analyze the understanding about the concept regarding subject. Also group discussions are learning and sharing information which covers large information about the topic. Differences in opinions are explicitly marked during discussions. Students are trained to tolerate the opinions of others.
Case Studies	Case Studies are discussed with students for better understanding of the subjects.
Tutorials	Tutorials and assignments are given to students for practice. Varieties of questions ranging from difficult to normal level are given to the students for overall conceptual knowledge.
Quiz	Quizzes are conducted as and when required into the classroom.

### **C. Performance Evaluation and support to weak students and encourage the bright students**

The performance of each student is measured continuously and improvements are suggested through various mediums. Improvement is achieved through:

**V. Systematic performance evaluation system:** The Institute conducts evaluation through internal class tests, assignments, sessional exams, semester examination and quizzes. Through the results obtained using performance evaluation and interaction with students, the academically weak and bright students are identified by the respective faculty members of each subject.

The criteria for the selection are based on:

1. Class test/ sessional exam results
2. TG's feedback
3. Previous semester results
4. Assignments assessments

#### **Methodologies used to support weak students and encourage bright students:**

The performance of each student is measured continuously and improvements are suggested through various mediums. The Institute has a mentoring system in place for each student. Improvement in students is achieved through:

##### **Criteria for judging:**

- The Institute conducts formal evaluation through internal class tests, assignments, sessional exams and semester examination.
- Students obtaining more than 75% in each internal level exam are to be considered as **Bright Students**.
- Students obtaining below 40% in each internal level exam are to be considered as **Weak Students**.
- TGs (tutor-guardian) are supposed to list the bright and weak students among his/her assigned tutor-guardian students and the segregated list of bright and weak students is submitted quality improvement committee for further action.
- The guidelines are set by quality improvement committee after receiving the list from TGs for each specific group of students to meet their respective need.

##### **Process to support academically weak students:**

- Discussion on required topics for clearing the concepts and solving previous question papers of internal and university examination are major tools to help them gain more experience and confidence.
- Doubt clearing sessions on theory
- Conduction of more Tutorial classes to increase the problem solving abilities
- Collaborative learning
- Additional teaching material
- Parent Teacher Meeting

##### **Process to encourage bright students:**

- The students are encouraged by giving appreciation letters based on overall performance in examinations.
- Institute uplift the students by increasing participation in (i) Technical Talk, (ii) Seminar (iii) Workshop and publishing technical research papers
- Class room teaching for Graduate Pharmacy Aptitude Test (GPAT) etc.
- Develop collaboration with industries and other Eminent Institute or professional bodies for grooming up knowledge in different fields.
- Participation in inter college national/international technical events such as poster/oral presentations, quiz competition, model making etc
- Funded innovative projects in association with various faculty members

##### **Impact observed:**

1. Student's attendance in classes is increased.
2. Performance in Examination turns out to be better.
3. Analytical ability of the students is increased.
4. Students motivated towards the competitive examination.
5. Students got more proneness to use modern study technique and practical study.

### **D. Quality of Classroom teaching:**

Classroom teaching is a milestone in attainment of PO's and CO's. To keep students engaged and interactive, classroom teaching at Truba Institute of Pharmacy Bhopal includes classical and new methods viz. board and chalk, smart board, OHP Presentation, power point presentations, use of ICT tools, web based learning, videos lecture, guest lectures, expert talk, workshops and seminars.

**Interaction:** After discussion of content of course, the students are asked to answer questions discussed in the same session. At the start of each session, topics covered in previous session are summarized and co-related with the topic of present discussion. Problem based learning, group discussions and seminars are used to escalate enthusiasm in students.

**ICT tool usages:** To achieve premier objectives of teaching and learning, we inculcate self-learning, motivation, skill development, applicability of knowledge gain etc. by use of tools such as laptop and computers, internet, power point presentations, YouTube videos, google classrooms, webex- meetings, Zoom-meetings and google forms etc.

**Web based learning:** We motivate students to use different educational web sites, Patent informative websites, research and review articles, you tube videos, powerpoint presentations.

**Presentations:** We promote and guide students to prepare powerpoint presentation to select topic from the course, prepare the presentation and present the same as an internal assessment tool.

**Life-long learning:** We at our institute emphasize on developing abilities/ skills useful for lifelong learning with more prominence on discipline.

**Effectiveness of classroom teaching:** We at Truba Institute of Pharmacy Bhopal concentrate on quality teaching. We also focus on student's excellence at National competitive examinations like GPAT, NIPER.

**Expert talk/Guest Lectures:** Senior academician or resource person from industry are requested –invited to deliver talk and share their experience with students. We promote our faculty to share expertise by arranging their expert lectures for courses other than assigned.

#### **Summer internship and winter internship Programme**

Academician/ Experts/ Industrialists/ Patent governing bodies are invited to deliver talk and share experience with students through theoretical and practical handlings viz. workshops, hands on trainings etc.

#### **E. Better Laboratory Facilities: -**

To acquire practical skill, ability to co-relate theoretical concept with practical aspects, improve confidence, and enhance leadership skill and to execute a task in team experimentation in laboratories are imperative. This can be achieved through-

- Conduct of experiments: All laboratories are well equipped with experimental setups and new experimental setups are added to the laboratory whenever the university syllabus and list of experiments are updated. Fig 2.4 shows how students perform practicals in laboratory.



Fig. 8 Students Performing Experiments in Laboratory

- All lab manuals are prepared well before the commencement of the semester.
- Each section is divided into two groups and the two groups are sent to two separate laboratories; in further they are divided into small groups of 4-5 students.\
- Each group will do the experiments separately in order to make them understand well and to get individual attention from the faculty.
- The students record the experimental values in their observation and after completion the students submit the same for evaluation.
- Viva voice of students is taken on regular basis and internal marking for the same is done on the same day of practical turn.

All documents related to usage of chemicals, glasswares, instruments, equipments are maintained.

Equipment / instruments in each laboratory are calibrated; SOP's and log books are maintained properly and checked regularly by laboratory in-charge.

#### **F. Continuous Assessment in laboratory:**

Students are exposed to well-equipped laboratories during practical experimentation. Where they learn use of instrumentation as well as various documentation processes like entry in log books, writing observations, drawing results and conclusions. An attendance, performance, journal writing and viva-voce are considered while evaluating each experiment.

Rubric based continuous assessment system is implemented for assessment of laboratory work. Continuous assessment for all laboratory classes based on certain rubrics, already set and approved by quality improvement committee. Each rubric is attributed in four grades

- (i) Excellent (ii) Good (iii) Fair and (iv) Poor.

The marking grades of the rubrics are as follows:

Table 11. Marking grades of the rubrics

S.No.	Attributes	Marking
1	Excellent	4
2	Good	3
3	Fair	2
4	Poor	1

**G. Student feedback of teaching learning process and actions taken:**

Feedback analysis is done based on the responses given by the students. Feedback questionnaire and grading parameters are decided in Academic Advisory Committee. In each semester minimum two feedback activities performed before beginning of each sessional exams. The feedback-form apprising the faculty in a scale of 0 to 05. Feedback-form comprising following points: Punctuality & Regularity; Grasp & Command over subject; Explanation & Communication ability; Quality of assignment & tutorial; Interaction with student approachability and Overall teaching

The feedback is used for following purposes:

- Faculty uses the feedback to improve or strengthen the content delivery style and the instructional material related to the course
- Used as an indirect assessment tool for evaluation of attainment of course outcome. The head of the department also consulted in this matter for:-
- Counseling of those faculty members who scored low and found negative comments (if any) in the feedback. This motivates them to improve their skills and abilities.
- If required, training /orientation programs are conducted by professional experts to master the skills of the faculty members in the nuances of teaching. Based on the performance of the faculty and staff members of the department
- Appreciation letter given to faculties scored high and letter for corrective measures given to faculties scored low.

---

**2.2.2 Quality of internal semester question papers, assignments and evaluation (10)**

Institute Marks : 10.00

The quality of the question paper is ensured by the Head of the Department/ Senior faculty members submitted by the faculty members and any question paper needs up gradation is instructed to revise the question paper.

**A. Course Assessment Process:** The academic performance of the students is a tool for assessment of the teaching and learning process adopted by the program. The performance evaluation may be both informal and formal.

**1. Informal evaluation** is done through student interaction, observation and feedback etc. However these tools are subjective and may vary person to person.

**2. Formal Evaluation** is done through university guidelines. As per the guidelines the course evaluation has two components namely, internal/continuous assessment and semester/terminal assessment with a ratio of 25:75 (for theory) on the scale of 100 and 15:35 (for laboratories) on a scale of 50.

Two Sessional exams shall be conducted for each theory / practical course as per the schedule given in academic calendar. The average marks of two Sessional exams shall be computed for internal assessment as per the guidelines of university.

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

#### Scheme for internal assessment and sessional examination

The marks allocated for continuous mode of internal assessment are as per the scheme given in Table

Table 12. Scheme for awarding internal assessment: Continuous mode

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

#### Guidelines for the allotment of marks for attendance:

Attendance is considered while awarding marks at institute level as mentioned in table.

#### Guidelines for the allotment of marks for attendance

Table 13. Scheme for awarding internal assessment: Continuous mode

S. N.	Percentage of Attendance	Theory	Practical
1	95 – 100	4	2
2	90 – 94	3	1.5
3	85 – 89	2	1
4	80 – 84	1	0.5
5	Less than 80	0	0

**B. Quality & Frequency of Internal Evaluations and Format for Question Papers:** The question paper of various formal evaluation methods are formulated as per university guideline and is elaborated as follows:-

**Internal Class test:-** Four internal class tests are centrally conducted by the institute for all the courses. In addition to that faculty members may organize an additional test for students who obtained less than 45% marks in the previous two class tests or was absent in any of the tests due to valid reasons.

Course outcomes are followed while setting the internal exam question papers where the following strategy is applied. The internal test consists of 30 Marks of subjective questions and objective question.

Table 14. Guidelines for Format for Question Paper Sessional and University exams

S.no.	Head	Mark distribution
<b>Theory Exams</b>		
<b>For University Examination Subjects (Theory)</b>		
I	Multiple choice question MCQs    OR objective type question	1X10=10
II	Long Answer (one out of Two)	1X10=10
III	Short Answer (Two out of three)	2X5=10
<b>Total marks</b>		<b>30</b>
<b>For Non-University Examination Subjects</b>		
I	Long Answer (one out of Two)	1X10=10
II	Short Answer ( Four out of Six)	4 ×5=20
<b>Total marks</b>		<b>30</b>
<b>Practical Exam</b>		
<b>Practical Sessional Examination</b>		
I	Synopsis	10
II	Experiments	25
III	Viva voce	05
<b>Total marks</b>		<b>40</b>

#### Mechanism of internal assessment

Institute is affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal the rules and regulations for evaluation process are laid down by the affiliating University and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program. At the college level, an Examination Cell, comprising of a senior teacher as in charge and other teaching and non-teaching staff as members, is constituted to handle the issues regarding examination and evaluation process.

- The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar.
- Schedule for end semester examinations are communicated during the semester as and when schedule is released by the University.
- The internal assessment evaluation process is communicated to students by the respective faculty and also during orientation program for first year students.
- Students are given general instructions regarding the evaluation methods of University answer scripts. The periodic instructions issued by the university are promptly communicated to the students. Such instructions are read in the classrooms and the copy of the same is displayed on the students' notice board.
- The faculty members are entrusted with the duty of providing awareness among the students regarding this.
- Appropriate schedule and syllabus for internal assessment is communicated to students well in advance (minimum 21 days before the date of commencement of examination).
- Question papers are set based on Course Outcomes by the course coordination team and are approved after thorough verification by the departmental quality cell.
- Verified question papers are sent to examination cell for conduction of class test.
- Evaluation of answer scripts is based on scheme prescribed by the university and solution by the faculty.
- After evaluation of the Answer Scripts the test results are published (within 7 days).

#### 2.2.3 Quality of Students projects (15)

Institute Marks : 15.00

As per university curriculum each student has to undertake one project work during VIII semester. Process related to project identification, allotment, and monitoring is described here.

A. Project selection and guide allotment process:

- The Institute academic committee (IAC) publishes project guide/supervisor name along with student's name on notice board.
- Project work is conducted on individually.
- Students select their topic of their interest and approach to assigned project guide/supervisor.
- Once mutually decided between project guide/supervisor and student, they can start working on the same.

Table 15 The categories of projects

SL.	Project Type
1.	Review
2.	Research based
3.	Formulation Development
4.	Analytical techniques
5.	Pharmacological studies
6.	Herbal formulations
7.	Designing of molecules

All the students are made aware of certain unethical practices by the academic community like violation of copyrights, indulgence in plagiarism etc. so that they can avoid these malpractices not only during their project work but also during report writing. This exercise takes care of PO-8 on ethics.

B. Planning, scheduling and execution:

Academic committee is responsible for planning, scheduling and execution of all the activities related to the project work. The complete execution schedule may be presented as in *Table 16*

Table. 16. Planning, scheduling and execution of students projects

Week	Activity	Marks
VIII semester		
Week 1	General discussion on selection of topic between students & their guide	-
Week 2	Continue the project work	05
Week 3	Literature survey & discussion with guide	05
Week 4	Designing of project objective work, research envisaged & discussion with guide	-
Week 5	Assembly of all the necessary requirements for project and get it verified by guide	-
Week 6	If necessary, some modification will be done on experimental setup discuss all modification with guide	05
Week 7	Experimental work	10
Week 8	Perform experiment and do modification wherever required	05
Week 9	Complete all calculations, graph, result validation etc.	05
Week 10	Make a project report (soft copy), get it verified by guide and prepare hard bound project report before one week of the scheduled submission	40

Week 11	Make a final power point presentation based on the project work and get it verified by guide	05
Week 12	Power point presentation of project	10
Week 12	Submission of final project report in presence of academic committee & viva voce	20
Week 12	Examination- viva voce by external examiner	40

C. Quality of completed projects/working prototypes: -

The projects are selected by the students based on their choice of topics in consultation of the guide. The variety of project successfully completed by the students broadly fall in the different categories as shown in Table.18

Table 17 Different categories of Project completed by the students

Sl.	Project Type	CAY	CAYm1	CAYm2
1.	Study and Review	36	32	36
2.	Research and Development	16	03	03
3.	Design, fabrication & prototype Development	6	04	02
4.	Process Planning		04	02
5.	Multi-disciplinary approach	2	02	02
6.	Application based	4	05	05
Total no of projects		79	50	50

Table 18 Example Projects completed by the students of the department

S.no.	Name of Student	Topic	Guide Name	Relevant to POs/ PSOs
1	Abhishek Gupta	Impact of repeated administration of Cannabis sativa on some biochemical parameters in albino rats.	Dr. R.S.Pawar	PO-1,2, 5, 9
2	Sourabh Prajapati	Mucoadhesive agent	Dr. Surendra K. Jain	PO-1,2,3,5,6
3	Aditya Rai	The Case Study of Diabetes Mellitus	Dr. H.G Garg	PO-1,2,5,9
4	Sumit Keshari	Prescription Pattern studyof cosmetics	Mr. Vinod Dhote	PO-1,2,5,9
5	Sudhansu Patra	Current strangies to enhance delivery of drugs across the blood brain barrier	Mr. Vinod Dhote	PO-1,2,5,9

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

Institute Marks : 20.00

Better interaction between Pharma institutions and industry/ hospital is the need of the hour since it has great impact on curriculum, exposure of pharmacy students to industrial environment and subsequent placement of young aspiring graduates in industry. In order to substantially increase interaction between academia and industry/ Hospitals' initiative such as invited lectures of Heads of Industry, Hospital organizations, organizing seminars and conferences in the area of structure elucidation of organic compounds, QbD techniques used in industry, innovations in the field of Pharm. sciences etc. Industrial visits are organized for familiarization of students with working environments of Industries. In order to further strengthen and channelize the Industry and Hospital interaction, we have signed MOUs with different industries and hospitals. The MOUs highlights areas such as Formulation and Development, Research and Development, Students internships, Industrial visits, Seminars and workshops.

Fig. 9 Details of MOUs signed by Institute (2022-23; 2021-22; 2020-21)



## TRUBA INSTITUTE OF PHARMACY, BHOPAL

### MOU'S Session 2022-23

COLLABORATING ORGANIZATION	COLLABRATION TYPE	OUTCOME OF COLLABORATION	YEAR
ICMR-NIREH	RESEARCH PROJECT	Design and conduct professional training for the students of pharmacy which will provide technical expertise with insights on selected training program by students.	2022-2023
R B Science Bhopal	PROJECT COLLABORATION	Provide Training project collaboration, workshop, expertise sharing and other allied Academic and Research activities to Pharmacy students	2022-2023
Transkin Research Pvt Ltd, Piplani Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Scan Research Laboratory Indrapuri, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Kil Pest India, Govindpura, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Phyto Drugs Pvt. Ltd.	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Pinnacle Biomedical Research Institute, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Hind Pharma Bhopal	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-2023
Codersdaily	T&P Training	Provide and conduct training session and hands for Pharmacy Students for placements	2022-2023
GPAT Discussion Centre Pvt Ltd Bilaspur	Expertise sharing for competitive exams	Provide and conduct training session for preparation of for competitive exams	2022-23
Drug Chemistry Research centre Indore	RESEARCH collaboration	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2022-23

MOU'S

Session 2021-2022

COLLABORATING ORGANIZATION	COLLABRATION TYPE	OUTCOME OF COLLABORATION	YEAR
ICMR -NIREH	RESEARCH PROJECT	Design and conduct professional training for the students of pharmacy which will provide technical expertise with insights on selected training program by students.	2021-2022
R B Science Bhopal	PROJECT COLLABORATION	Provide Training ,project collaboration, workshop, expertise sharing and other allied Academic and Research activities to Pharmacy students	2021-2022
Transkin Research Pvt Ltd, Piplani Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Scan Research Laboratory Indrapuri, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Kil Pest India,Govindpura, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Phyto Drugs Pvt. Ltd.	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Pinnacle Biomedical Research Institute, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Hind Pharma Bhopal	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2021-2022
Codersdaily	T&P Training	Provide and conduct training session and hands for Pharmacy Students for placements	2021-2022



**MOU'S**

**Session 2020-2021**

COLLABORATING ORGANIZATION	COLLABRATION TYPE	OUTCOME OF COLLABORATION	YEAR
Scan Research Laboratory Indrapuri, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2020-2021
ICMR -NIREH	RESEARCH PROJECT	Design and conduct professional training for the students of pharmacy which will provide technical expertise with insights on selected training program by students.	2020-2021
R B Science Bhopal	PROJECT COLLABORATION	Provide Training ,project collaboration, workshop, expertise sharing and other allied Academic and Research activities to Pharmacy students	2020-2021
Kil Pest India,Govindpura, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2020-2021
Phyto Drugs Pvt. Ltd.	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2020-2021
Pinnacle Biomedical Research Institute, Bhopal (M.P)	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2020-2021
Hind Pharma Bhopal	RESEARCH PROJECT	Provide and conduct Research based experiment and hands on Training for Pharmacy Students	2020-2021

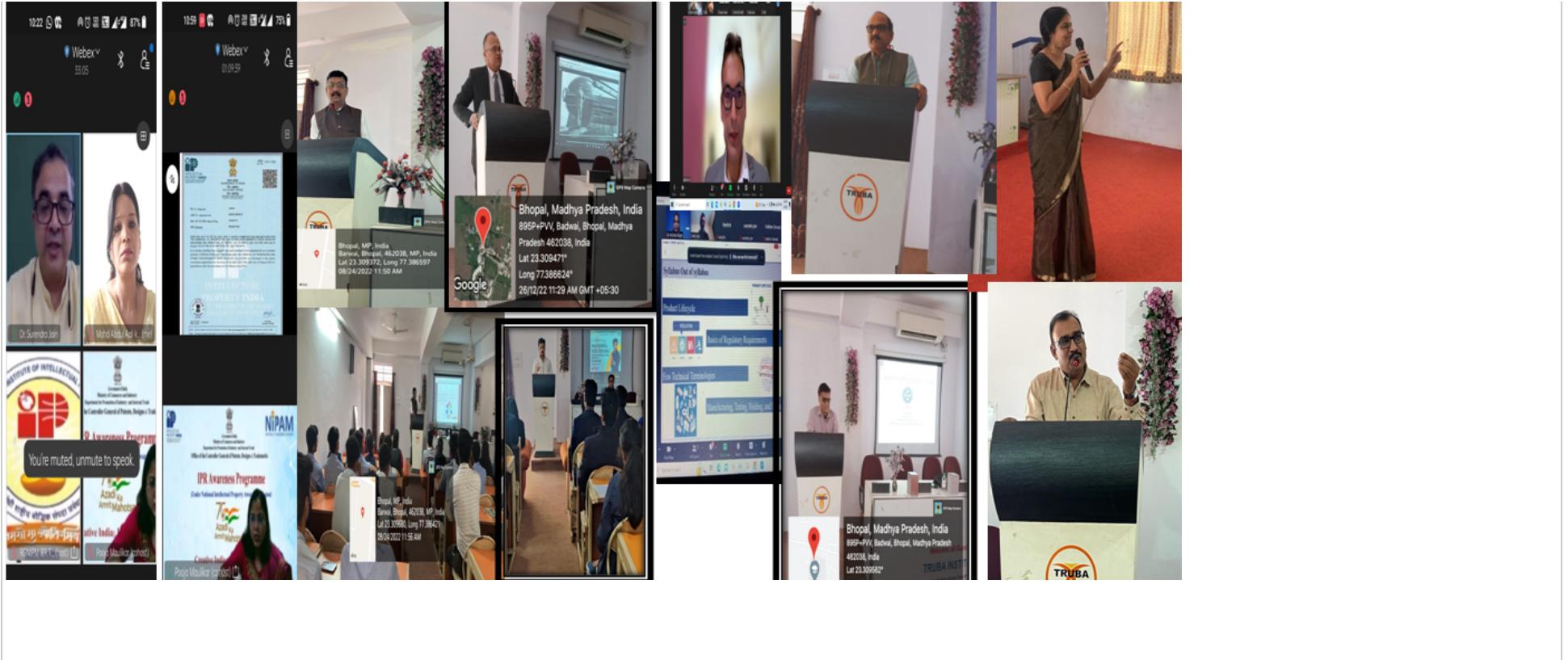
Following are some activities in which shows interaction with industry personnel through industrial visit, as a guest lecturer to either partial completion of syllabus topic or any other topic currently used in industry

Table.19. Details of Activities reflecting Industry - Institution

Year	Date	Title	No. of participant	Resource person	Coordinator
1.	05/01/2023	Ethics and Moral Values	95	Mr Ramesh Kumar Vyas Social activist and Retd from India Railways	Dr. Surendra K. Jain Dr. Rajesh Singh Pawar

2.	12/01/2023	Youth- The power of nation (Nation youth day celebration on 161 birth anniversary of Swamivivekananda)	87	Mr. Ansh Gupta (IT company, restaurant owner, and actor)	Dr. Surendra k Jain Dr. R S Pawar Ms. Niharika Thakur
3.	08/01/2023-15/01/2023	Awareness session on Pharmaceutical Industry	210	Mr Ankit Jain, Associate Director, Arcolab Pvt Ltd Bangalore	Dr. Surendra K. Jain Dr. Archana Bagre Mrs Kajal Khan
4.	07/03/2023	Hospital Visit	50	AIIMS Visit	Dr. Surendra k Jain Dr. R S Pawar
5.	24/01/2023	Hospital Visit	65	Chirayu Hospital	Dr. Surendra k Jain Dr. R S Pawar
6.	16/08/2022	Start- up/ Enterpreneurship	135	Mr Hemant Dhakar MD, SS Industries	Dr. Shalini Bajaj
7.	05/09/2022	Carrier Guidance GPAT Exam preparation and development of Soft skills	125	Dr Abhishek Kumar Tripathi Head of Operations GPAT Discussion Centre (GDC)	Dr. Rajesh Singh Pawar Dr. Surendra K. Jain
8.	08/09/2022	Pharmacovigilance and Pharma corporate jobs aspects	110	Ms Mitali Jain PVC E scientist-I Senior Process Associate	Dr. Surendra K. Jain
9.	01/11/2022	Novel Drug delivery systems for Cancer Therapy	115	Dr. P. N. Gupta Scientist-E CSIR, Jammu	Dr. Rajesh Singh Pawar Dr. Surendra K. Jain
10.	26/12/2022	Alumini Talk	85	Mr. Abhishek Mishra, Head and ZSM of Kremedine health Director	Dr. Surendra k Jain Dr. R S Pawar Ms. Niharika Thakur
11.	26/12/2022	Alumini Talk	89	Mr. Anuj Sharma, director true words India and accelevis venture	Dr. Surendra k Jain Dr. R S Pawar Ms. Niharika Thakur
12.	01/09/2022	Job opportunities for Indian pharmacist in Australia and Canada	118	Dr Akram Ahmad Human behavior researcher the children's hospital westmad, Sydney, Australia	Ms. Seerat Anwar
13.	17/08/2022	Importance of Professional Ready Training in clinical research and pharmacovigilance	95	Ms Nikita jogewar Event speaker Clini India	Ms. Kajal Khan
14.	07/09/2022	Hands-on Training on "HPLC Instrument"	106	Mr. Prabhat Jain Director SCAN lab Bhopal	Ms. Sonika Prajapati Dr. Shalini Bajaj

15.	25/06/2021	Pharmacovigilance: Opportunity & Future Career Prospects for Budding Graduates	60	Dr Rahul Somani Mr. Rohit sen Mrs. Ruchika Udainiya Mrs. Vidhu Saxena Mr Nehnalin Shukl Ms Mitali Jain	Mr. Vinod Dhote Ms. Niharika Thakur
16.	17/05/2021	Molecular Docking: Danger , utility,Challenges and application	100	Dr. Robert J. Doerksen Department of BioMolecular USA	Dr. Rajesh Singh Pawar, Dr. Surendra K. Jain
17.	10/09/2021	Hospital Visit	50	Peoples Hospital	Dr. Rajesh Singh Pawar, Dr. Surendra K. Jain
18.	08/07/2021	Principles and Basics of AAS, ICP-OES and ICP-MS	256	Dr Piyush Deokar Product Manager Thermofischer Scientific	Ms. Niharika Thakur
19.	27/05/2020	Dendrimer mediated multi functional Brain Targeted Nanodevices	759	Dr Abhay Singh Chouhan <a href="https://youtu.be/fjspWPY5Sgk">https://youtu.be/fjspWPY5Sgk</a>	Dr Rajesh Singh Pawar Prof Vinod K Dhote
20.	28/05/2020	"The Role of Intellectual Property Management & Technology Transfer in Academic Institutions around the World	759	Dr. Joy Goswami Assistant Director Technology Transfer Center (Office of Economic Innovation & Partnerships) University of Delaware, USA	Dr Rajesh Singh Pawar Prof Vinod K Dhote
21.	10/06/2020	Challenges and opportunities of Traditional medicine in India: Before and after Covid-19"	503	Dr Babu UV Head Phytochemistry Himalaya Drug company Bangluru	Dr Rajesh Singh Pawar Mr. Vinod K Dhote
22.	13/06/2020	Biologics and their Impact on Pharmaceutical Industry"	296	Dr. Mayank Thakur Unit Medical Head Medical Affairs SANOFI, Berlin (Germany)	Dr Rajesh Singh Pawar Mr. Vinod K Dhote
23.	15/06/2020	"How to make your carrier in Clinical Research"	270	Mr. Bhanu Pratap Singh Kaurav Sr. Clinical Research Associate DNDi (Drug for Neglected disease Initiatives) & GARDP (Global Antibiotics Research & Development Partnership) Geneva Switzerland	Ms. Kanika Dhote Mr. Vinod K Dhote
24.	18/06/2020	"Enhanced Solubilization Through Amorphous Solid Dispersions-Hot Melt Extrusion	370	Dr. Nitin Swarnakar Scientist III, Global Technical Marketing (Pharma Solutions); BASF Corporation, Pharma Solutions, Tarrytown, United States	Dr Rajesh Singh Pawar Mr. Vinod K Dhote
25.	20/06/2020	UHPLC – Basics & Principles (Instrumentation & Columns)	239	Mr. Justin Nadar Thermo Fisher Scientific	Ms. Niharika Thakur Dr Rajesh Singh Pawar Mr. Vinod K Dhote



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

Institute Marks : 10.00

**Initiatives:** Institute provide the hands-on training to the students required for skill development and to fulfil demands of the industry. The efforts are directed to make students acclimatize with the practices of industry, observing and understanding of manufacturing processes in terms of unit operations and organizing the unit operations in the production of various dosage forms viz. tablets, capsules and injectable. Students are made familiarize with the roles and responsibilities of Quality Assurance Department in Pharm. organization, Good Documentation Practices, Good Laboratory Practices, Good Manufacturing Practices, testing requirements, QMS, BMR/ BPR.

**Implementation:** As per curriculum of University, industrial training is mandatory to B. Pharm program. During summer vacations, Third Year B. Pharm students are placed (with the help of Training and placement cell) for training in various industries including Pharma Industries, Clinical Pharmacy laboratories, analytical laboratories etc. During training, students get well acquainted with practical application of theoretical knowledge.

A list of student's undergone summer industrial training for the last three academic years is given below in Table. 20

**Table 20: Details of Industry internship and summer training.**

S.No.	Date	Title	Expert/ Resource Person	No of Participants
1.	14/10/2022	Technical Presentation on High Performance Thin Layer Chromatography (HPTLC) System for the analysis of Herbal Samples	Dr. Subhendu Saha Director Aspire Scientific, Kolkata	79
2.	16/11/2022	Basics of Interpretation in IR	Dr Neeraj Upmanyu SAGE University	54
3.	15/10/2022	Using Budding Yeast Model for Targeted Drug Screening	Dr. Chandan Sahi Associate Professor (Department of biological Sciences) IISER, Bhopal	79
4.	27/02/2023	Chemical structure drawing tools: Introduction	Dr. Prabhat Jain Scan Labs.	45
5.	4/02/2022-5/02/ 2022	Pre-Placement Talk	Mr. Anuj Sharma, Dr Rachana Dubey Miss Mitali Jain	165
6.	11/02/2022-12/02/2022	Process of Formulation Development	Dr. Naveen gupta, Dr. Satish Shipli Prof. Vinod Dhote	180
7.	25/02/2022-26 /02/ 2022	Basic Practices in Pharmacy	Prof. Vipul Patel Prof. Ruksar Mansoori	200
8.	04/09/2021	HPTLC: Techniques and Herbal Applications	Mr Ashish Bansod Director Aspire Scientific, Kolkata	79
9.	08/07/2021	Principles and Basics of AAS, ICP-OES and ICP-MS	Dr Piyush Deokar Product Manager ThermoFischer Scientific	256

10.	11/03/2022	Commercial cultivation of medicinal plants and its future prospects	Dr. Shashank K. Singh, Senior Principal Scientist and Professor (AcSIR) , Cancer Pharmacology Division	47
11.	20/09/2021	SUPAC Guideline	Dr. Azaz Khan PBRI	64
12.	09/12/2021	Radioactive elements: Applications in Modern pharmacy	Dr. Alok Pal Jain SRK University	39
13.	12/08/2020	Practical aspects of B. Pharma: implementaion in pharma Industry	Mr Ankit Jain Bangalore	48
14.	18/08/2020	Challenges and opportunities of Traditional medicine in India: Before and after Covid-19”	Dr Babu UV Head Phytochemistry Himalaya Drug company Bangalore	75
15.	17/05/2021	Molecular Docking: Danger ,utility,Challenges and application	Dr. Robert J. Doerksen Department of BioMolecular USA	105

Table: 21 Details of Industry visit and Skill Development Programme

S.No.	Date	Title	Theme	Coordinator	No of Participants
1.	26/12/2019-04/01/2020	Alkem Pharmaceuticals, Darjeeling, Assam	Educational Tour	Dr. Rajesh Singh Pawar Mr. MD Anaytullah Mr. Vipul Patel Ms. Namita Badoniya	40
2.	14/02/2023-20/02/2023	CB Healthcare Nalagarh, H.P.	Educational Tour	Mr. Vipul Patel Mr. MD. Abdul Ali	36

3.	24/11/2022	Health Awareness rally, Bhopal Village	Field visit	Mr. Keshav Das Sahu, Mr Shubham Vishwakarma	160
4.	10/12/2022	One day Industrial visit at Piramal Solution Pithampur Indore	Industry visit	Dr. Surendra k Jain Dr. R S Pawar Mr. Vipul Patel Ms. Sonika Prajapati	41
5.	23/12/2022	One Day visit “International Herbal fair-2022” as design center	Theme protection “Health from minor forest produce”	Dr. Surendra k Jain Dr. R S Pawar Dr. Archana Bagre Mrs. Kajal Khan	53
6.	10/08/2021	Hands on training in analytical instruments At PBRI	Skill development workshop	Mr. Shubham Vishwakarma Ms. Rukhsar	40
7.	15/01/2022	Hands on training on HPLC At Scan Laboratories	Skill development workshop	Mr. Nitin Saini Mr. Rishi Raj Shrivastava	35

Fig .10.Details of Industry internship and summer training- Batch 2023



## TRUBA INSTITUTE OF PHARMACY, BHOPAL

### INDUSTRIAL TRAINING RECORD

BATCH- 2023

S.NO.	STUDENT NAME	ENROLL NO.	COMPANY NAME	LETTER ISSUE DATE
1	ABHISHEK KUMAR	0151PY191003	HIND PHARMA, BHOPAL	16/06/2022
2	ABHISHEK SAHU	0151PY191006	PIRAMAL HEALTH CARE LTD INDORE	08/08/2022
3	ADITYA	0151PY191009	TEBLIK DRUG LTD INDORE	08/08/2022
4	AKSHAT SAXENA	0151PY191011	ARISTO PHARMA	8/8/2022
5	AMAN GUPTA	0151PY191012	ZEST PHARMA, BHOPAL	8/08/2022
6	AMRITANSH SINHA	0151PY191013	HIND PHARMA, BHOPAL	16/06/2022
7	ANIMESH JAIN	0151PY191014	HIND PHARMA	27/07/22
8	ANKIT KUMAR	0151PY191015	ZEST PHARMA	8/08/2022
9	ANSHUL	0151PY191016	TEBLIK DRUG LTD INDORE	08/08/2022
10	ANURAG KUMAR	0151PY191017	LUPIN, BHOPAL	8/08/2022
11	ANURAG KUMAR	0151PY191017	FDA	8/08/2022
12	ARUN KIRAR	0151PY191019	ZEST PHARMA, BHOPAL	8/8/2022
13	ARVINDRA SINGH LODHI	0151PY19102	LUPIN, BHOPAL	4/08/2022
14	AYUSHI PAL	0151PY191024	FDA	03/08/2022
15	CHAMAN SINGH	0151PY191025	SCAN LAB, BHOPAL	8/08/2022
16	DEEPTI KUMBHARE	0151PY191029	ZEST PHARMA, BHOPAL	8/08/2022
17	DHARMENDRA VISHWAKARMA	0151PY191030	LUPIN, BHOPAL	4/08/2022
18	DIVAKER VERMA	0151PY191032	HIND PHARMA	27/07/22
19	GOBHEEL TIWARI	0151PY191033	RGPV	03/08/2022
20	GUNJAN	0151PY191035	SUN PHARMA, GURGAON	07/06/2022
21	HARIOM RAJPUT	0151PY191036	ARISTO PHARMA	8/08/2022
22	HARSH RAGHUVANSHI	0151PY191038	RGPV	03/08/2022
23	HARSHIT SHARMA	0151PY191039	PIRAMAL HEALTH CARE LTD INDORE	08/08/2022
24	IFA MEHANDI	0151PY191042	ARISTO PHARMA	8/08/2022
25	KALPANA PATEL	0151PY191049	ZEST PHARMA, BHOPAL	8/08/2022
26	KRISHNA GOPAL PUROHIT	0151PY191052	ARISTO PHARMA	16/08/2022



## TRUBA INSTITUTE OF PHARMACY, BHOPAL

27	MONIKA DHAKAD	0151PY191059	ZEST PHARMA, BHOPAL	8/08/2022
28	PRAVEEN KUMAR	0151PY191070	LUPIN, BHOPAL	8/08/2022
29	RAHUL KUMAR	0151PY191073	ARISTO PHARMA	8/08/2022
30	RAJU KUMAR	0151PY191075	PIRAMAL HEALTH CARE	16/08/2022
31	RAKESH	0151PY191076	ARISTO 32PHARMA	08/08/2022
32	RAVI VERMA	0151PY191078	ZEST PHARMA	8/08/2022
33	SAGAR MISHRA	0151PY191081	HIND PHARMA	27/07/22
34	SAINA KHATOON	0151PY191083	ARISTO PHARMA	08/08/2022
35	SAKALDEO	0151PY191084	ARISTO PHARMA	8/8/2022
36	SHIVAM AHIRWAR	0151PY191089	LUPIN, BHOPAL	4/08/2022
37	TAIOBA NASREEN	0151PY191094	ARISTO PHARMA	8/08/2022
38	UMESH K MAHO	0151PY191096	SCAN LAB	8/08/2022
39	VASUDHA SHARMA	0151PY191101	HIND PHARMA, BHOPAL	27/07/2022
40	VIKAS AHIRWAR	0151PY191098	LUPIN, BHOPAL	16/08/2022
41	VIKAS RAJPUT	0151PY191099	ARISTO PHARMA	16/08/2022

Fig. 11 Details of Industry internship and summer training- Batch 2022



# TRUBA INSTITUTE OF PHARMACY, BHOPAL

## INDUSTRIAL TRAINING REPORT

BATCH 2018-2022

SN	STUDENTS NAME	ENROL. NO.	COMPANY NAME	DATE OF TRAINING
1	AAKANKSHA MOTWANI	015IPY181001	LUPIN	11/10/2021-11/11/2021
2	ABHISHEK GUPTA	015IPY181002	PARK BENZ Laboratories	22/10/21-20/11/21
3	ABHISHEK PRAJAPATI	015IPY181005	LUPIN	27/09/2021-27/10/2021
4	ABHISHEK SAHU	015IPY181006	LUPIN	11/10/2021-11/11/2021
5	ADITYA RAI	015IPY181007	PARK BENZ Laboratories	22/10/21-20/11/21
6	AJAY AHIRWAR	015IPY181008	Aristo Pharmaceutical Pvt.Ltd	20/10/2021-20/11/2021
7	AMIT MISHRA	015IPY181010	Aristo Pharmaceutical Pvt.Ltd	10/10/2021-9/11/2021
8	AMIT YADAV	015IPY181011	PARK BENZ Laboratories	22/10/21-20/11/21
9	AMRAT LOVEWANSHI	015IPY181012	ZEST PHARMA	21/10/2021-22/11/2021
10	ANIKET	015IPY181014	PARK BENZ Laboratories	22/10/21-20/11/21
11	ANIL JATAV	015IPY181015	Lifespan Biotech Pvt. Ltd.	1/10/2021-15/10/2021
12	ANISUR RAHMAN	015IPY181016	ZEST PHARMA	21/10/2021-22/11/2021
13	ANJALI BATHAM	015IPY181017	PARK BENZ Laboratories	22/10/2021-20/11/2021
14	ARJUN MAJUMDAR	015IPY181018	LUPIN	11/10/2021-11/11/2021
15	ARVIND	015IPY181019	PARK BENZ Laboratories	22/10/21-20/11/21
16	AVINANDAN KUMAR	015IPY181020	Aristo Pharmaceutical Pvt.Ltd	20/10/2021-20/11/2021
17	BHUSHAN ATTARDE	015IPY181022	PARK BENZ Laboratories	22/10/21-20/11/21
18	BIRENDRA KUMAR	015IPY181023	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-24/11/2021
19	CHINTAMANI	015IPY181025	LUPIN	11/10/2021-11/11/2021
20	DEEPAK CARPENTER	015IPY181027	Aristo Pharmaceutical Pvt.Ltd	20/10/2021-20/11/2021
21	DINESH LODHI	015IPY181028	Aristo Pharmaceutical Pvt.Ltd	15/11/2021-16/12/21
22	DOUDIBRAHIM AHMED	015IPY181029	Aristo Pharmaceutical Pvt.Ltd	1/11/2021-30/11/21
23	FARHAN KHAN	015IPY181030	LUPIN	11/10/2021-11/11/2021
24	GAUTAM RAGHUVANSHI	015IPY181033	Aristo Pharmaceutical Pvt.Ltd	20/10/2021-20/11/2021
25	GOURAV NAGAR	015IPY181034	LUPIN LIMITED	10/10/2021-10/11/2021
26	HARSHITA JAIN	015IPY181035	Lifespan Biotech Pvt. Ltd.	11/10/2021-10/11/2021
27	JITENDRA JADAM	015IPY181041	PARK BENZ Laboratories	22/10/2021-20/11/2021
28	JUBAIR AHMAD	015IPY181042	LIFESPAN BIOTECH PVT LTD	1/10/2021-15/10/2021
29	KAVI	015IPY181044	Aristo Pharmaceutical Pvt.Ltd	20/10/2021-20/11/2021



## TRUBA INSTITUTE OF PHARMACY, BHOPAL

30	KESHORAO	0151PY181045	PARK BENZ Laboratories	22/10/21-20/11/21
31	KUBER SINGH MASRAM	0151PY181046	ZEST PHARMA	21/10/2021-22/11/2021
32	LOKESH	0151PY181047	PARK BENZ Laboratories	22/10/2021-20/11/2021
33	M SUDHANSU PATRA	0151PY181048	Lifespan Biotech Pvt. Ltd.	1/10/2021-15/10/2021
34	MADHAV KUMAR	0151PY181049	PARK BENZ Laboratories	22/10/2021-20/11/2021
35	MANISH SAHU	0151PY181050	LUPIN LIMITED	27/09/2021-27/10/2021
36	MEGHA KUSHWAHA	0151PY181051	Lifespan Biotech Pvt. Ltd.	1/10/2021-15/10/2021
37	MOHD ASIF KHAN	0151PY181053	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-24/11/2021
38	MONIKA MALVIYA	0151PY181054	Lifespan Biotech Pvt. Ltd.	1/10/2021-30/10/2021
39	MONU MEENA	0151PY181055	Aristo Pharmaceutical Pvt.Ltd	22/10/21-20/11/21
40	NAMITA DANGI	0151PY181056	LUPIN LIMITED	11/10/2021-11/11/2021
41	NARENDRA GHATIYA	0151PY181057	PARK BENZ Laboratories	22/10/21-20/11/21
42	NAWAZ	0151PY181058	Lifespan Biotech Pvt. Ltd.	1/10/2021-15/10/2021
43	NEELESH RATHOUR	0151PY181059	FDA	9/9/2021-8/10/2021
44	NEERAJ GOUR	0151PY181060	PARK BENZ Laboratories	22/10/21-20/11/21
45	NITESH NAGAR	0151PY181062	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-25/11/2021
46	PANKAJ GUPTA	0151PY181063	PARK BENZ Laboratories	22/10/21-20/11/21
47	PANKAJ KAPSE	0151PY181064	ZEST PHARMA	21/10/2021-22/11/2021
48	PRASHANT PANDEY	0151PY181067	PARK BENZ Laboratories	22/10/2021-20/11/2021
49	PRASHANT SIKARWAR	0151PY181068	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-25/11/2021
50	PRERANA PRIYadarshini	0151PY181069	Lifespan Biotech Pvt. Ltd.	11/10/2021-10/11/2021
51	RAKESH YADAV	0151PY181071	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-25/11/2021
52	RAVI MEHER	0151PY181072	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-25/11/2021
53	READINGSTAR AHMED	0151PY181073	Aristo Pharmaceutical Pvt.Ltd	25/10/2021-25/11/2021
54	RITIKA KUMARI	0151PY181075	Lifespan Biotech Pvt. Ltd.	11/10/2021-10/11/2021
55	ROHIT GUPTA	0151PY181076	Aristo Pharmaceutical Pvt.Ltd	1/11/2021-30/11/2021
56	ROHIT MEENA	0151PY181077	Aristo Pharmaceutical Pvt.Ltd	20/10/21-20/11/21
57	SAFIR AHMED MANDAL	0151PY181078	Lifespan Biotech Pvt. Ltd.	1/10/2021-15/10/2021
58	SAKSHI SINGH TIWARI	0151PY181079	Lifespan Biotech Pvt. Ltd	11/10/2021-10/11/2021
59	SAMIM ABDUL HABIB	0151PY181080	Aristo Pharmaceutical Pvt.Ltd	1/11/2021-30/11/2021
60	SANGAM CHAURASIYA	0151PY181081	PARK BENZ Laboratories	22/10/21-20/11/21
61	SHAHALOM SK	0151PY181082	Aristo Pharmaceutical Pvt.Ltd	1/11/2021-30/11/2021



## TRUBA INSTITUTE OF PHARMACY, BHOPAL

62	SHAMBHU AGRAHARI	DAYAL	0151PY181083	LIFESPAN PVT.LTD	BIOTECH	1/10/2021-30/10/2021
63	SHIVAM MISHRA		0151PY181084	LUPIN LIMITED		11/10/2021-11/11/2021
64	SHIVANI LODHI		0151PY181085	LIFESPAN PVT.LTD	BIOTECH	1/10/2021-30/10/2021
65	SHIVANI PANDEY		0151PY181086	LIFESPAN PVT.LTD	BIOTECH	1/10/2021-30/10/2021
66	SHOHIDUR RAHMAN SK		0151PY181087	Aristo Pharmaceutical Pvt.Ltd		1/11/2021-30/11/21
67	SHORIFUL ALOM AHMED		0151PY181088	ZEST PHARMA		20/10/2021-20/11/2021
68	SHUBHAM KUMAR		0151PY181089	PARK BENZ Laboratories		22/10/2021-20/11/2021
69	SK MD KHAIRUL HASAN SARKAR		0151PY181090	PARK BENZ Laboratories		22/10/2021-20/11/2021
70	SOURABH MISHRA		0151PY181092	FDA		22/9/2021-22/10/2021
71	SOURABH PRAJAPATI		0151PY181093	LUPIN LIMITED		11/10/2021-11/11/2021
72	SUBHI YADAV		0151PY181094	LIFESPAN BIOTECH PVT. LTD		11/10/2021-10/11/2021
73	SUMIT KESHARI		0151PY181095	PARK BENZ Laboratories		22/10/2021-20/11/2021
74	SUSHANT SHARMA	KUMAR	0151PY181096	Aristo Pharmaceutical Pvt.Ltd		6/11/2021-6/10/2021
75	VISHAL YADAV	ASHISH	0151PY181097	LUPIN LIMITED		10/10/2021-10/11/2021
76	OMPRakash		0151PY181099	PARK BENZ Laboratories		22/10/2021-20/11/2021
77	YOGESH AHIRWAR		0151PY181100	Aristo Pharmaceutical Pvt.Ltd		12/10/2021-12/11/2021
78	MOHD AKSAR		0151PY181101	PARK BENZ Laboratories		22/10/2021-20/11/2021
79	SUMIT SINGH		0151PY181102	LUPIN LIMITED		11/10/2021-11/11/2021
80	MOHAMMAD SHADAB	SHEKH	0151PY171030	Aristo Pharmaceutical Pvt.Ltd		1/10/2021-2/11/2021
	SHUBHAM SONDHIYA		0151PY171051	ZEST PHARMA		21/10/2021-22/11/2021



## 2.2.6 Continuous Evaluation Process (10)

Institute Marks : 10.00

In continuous evaluation process, various tests and assessment are performed including Sessional theory and practical exams, University exam, Journal/lecture/library notes, Seminar/presentation, Short quizzes, Assignment and Open book tests etc.

**Evaluation in Theory:** Written tests are scheduled as per the syllabus/topics covered by the faculty. Students are aware of the schedule of examination well in advance to get time for preparation. Assignments such as answers to the short questions, collection of information on various topics are also taken. Seminar/ presentations and open book tests are also used to assess the students.

**Evaluation in Practical:** Students are given a complete exposure to develop practical skills in well-equipped laboratories. Student's performance in practical is continuously monitored through viva-voce and short quizzes. Laboratory practical files are corrected and evaluated regularly.

## 2.2.7 Quality of Experiments (20)

Institute Marks : 20.00

Institute provides well equipped machine room and Central instrument room with sophisticated instruments such as Tablet compression machine, Dissolution test apparatus, Cooling centrifuge, Brookfield viscometer, UV Spectrophotometer and High Performance Liquid Chromatography. Laboratories are well equipped with basic requirements as per the PCI and RGPV university norms along with Standard Operating Procedures (SOPs).

- RGPV university curriculum specifies the total number of experiments to be conducted in each course.
- Students are given demonstration and hands-on experience on equipments some of which are a part of their theory syllabus. Thus, students can correlate theoretical concepts with practical knowledge, enabling them to have a better understanding of the subject.
- The practicals of the overall Program of all semester of program involve skills developments at various levels include confidence, leadership, team building and leading a group etc.
- Students are able to do measurements, documentation, calculations and interpretation of results, graphical representation and conclusion on the results.
- Safety precautions in handling of chemicals, instruments and equipment's are taught to them in very early stages of program and it is in continuation wherever applicable.
- After conduction of every practical, results obtained are discussed.
- Students are oriented to refer Standard Operating Procedures (SOPs) before using any instrument or equipment especially for those which are sophisticated.

Figure:13 Content and Practical from Practical manual

**BP 609 P. HERBAL DRUG TECHNOLOGY (Practical)**

**4 hours/ week**

1. To perform preliminary phytochemical screening of crude drugs.
2. Determination of the alcohol content of Asava and Arista
3. Evaluation of excipients of natural origin
4. Incorporation of prepared and standardized extract in cosmetic formulations like creams, lotions and shampoos and their evaluation.
5. Incorporation of prepared and standardized extract in formulations like syrups, mixtures and tablets and their evaluation as per Pharmacopoeial requirements.
6. Monograph analysis of herbal drugs from recent Pharmacopoeias
7. Determination of Aldehyde content
8. Determination of Phenol content
9. Determination of total alkaloids

**Recommended Books: (Latest Editions)**

1. Textbook of Pharmacognosy by Trease & Evans.
2. Textbook of Pharmacognosy by Tyler, Brady & Robber.
3. Pharmacognosy by Kokate, Purohit and Gokhale
4. Essential of Pharmacognosy by Dr.S.H.Ansari
5. Pharmacognosy & Phytochemistry by V.D.Rangari
6. Pharmacopoeal standards for Ayurvedic Formulation (Council of Research in Indian Medicine & Homeopathy)
7. Mukherjee, P.W. Quality Control of Herbal Drugs: An Approach to Evaluation of Botanicals. Business Horizons Publishers, New Delhi, India, 2002.

Figure 12: List of Practicals mentioned in Syllabus

Sl. No	CONTENT	Page No
1.0	Preliminary Phytochemical Screening of Aqueous Extract of Neem	1
2.0	Determination of The Alcohol Content of Asava And Arista	13
3.0	Evaluation of Excipients of Natural Origins 3.1 Tragacanth 3.2 Acacia 3.3 starch 3.4 Honey	15
4.0	Preparation And Evaluation of Turmeric Cream	21
5.0	Preparation And Standardization of Herbal Lotion	24
6.0	Preparation And Standardization of Methi-Shikakai Shampoo	28
7.0	Preparation And Evaluation of Orange Syrup B.P.C	33
8.0	Preparation And Evaluation of Churna Mixture	35
9.0	Preparation And Evaluation of Tablet	37
10.0	Monograph Analysis of Castor oil wt/ml of castor oil Acid value of castor oil saponification value of castor oil Refractive index of castor oil	40
11.0	Determination of Aldehyde content	45
12.0	Determination of phenol content	46
13.0	Determination of Total Alkaloids	48

## **PREPARATION AND STANDARDIZATION OF METHI-SHIKAKAI SHAMPOO**

### **AIM:**

To prepare and standardize Methi-shikakai shampoo.

### **REQUIREMENTS:**

Methi, shikakai, orange peel, distilled water, beaker, glass rod, measuring cylinder, weighing balance, pH meter, evaporating dish, canvas paper and stop watch.

### **PRINCIPLE:**

Herbal shampoos are the cosmetic preparations that with the use of traditional ayurvedic herbs are meant for cleansing the hair and scalp just like the regular shampoo. They are used for removal of oils, dandruff, dirt etc. Methi's protein, nicotinic acids and large amounts of lecithin are highly effective against hair fall and provide strength from the roots. The seed contains a special hormone that enhances hair growth and helps repair the hair structure.

Shikakai is excellent for hair as it does not have side-effects unlike shampoo which are loaded with chemicals to add more lather. It does not strip your hair's natural oils, which means that they are stronger from within and do not look rough and dry. It helps in controlling hair fall and also in reducing dandruff naturally due to its antibacterial action.

### **PROCEDURE:**

Formulation of Methi-shikakai shampoo

- Methi - 250g
- Shikakai - 1g
- Orange peel - Handful
- Water Q.S - 2 liters

Crush all ingredients into powder form. Add sufficient quantity water to produce 2 liters.

## **3 COURSE OUTCOMES (COS) AND PROGRAM OUTCOMES (POS) (100)**

Total Marks 100.00

### **3.1 Establish the correlation between the courses and the Program Outcomes (NBA defined Program Outcomes as mentioned in Annexure I) (20)**

Total Marks 20.00

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

Course Name :	C1 01	Course Year :	1-101
Course Name	<b>Statements</b>		
C1 01.1	Describe various homeostatic mechanisms and their imbalances to affect health.		
C1 01.2	Recall and distinguish the anatomy and physiology of human organ, tissues, special senses and explain their disorder and regulation to society.		
C1 01.3	Demonstrate and discuss the working pattern of different organ of each system to regulate body activities.		

Course Name :	C1 06	Course Year :	1-201
---------------	-------	---------------	-------

Course Name	<b>Statements</b>
C1 06.1	Recall and explain the morphology, structure, and functions of various organs of the human body and explain various homeostatic mechanisms and their imbalances.
C1 06.2	Estimation of blood cell, hemoglobin, bleeding/clotting time and measuring blood pressure, heart rate, pulse, and respiratory volume.
C1 06.3	Recall the coordinated working pattern of different organs of each system and explain the interlinked mechanisms in the maintenance of normal functioning of human body.

Course Name :	C2 01	Course Year :	2-301
---------------	-------	---------------	-------

Course Name	<b>Statements</b>
C2 01.1	Recall the structure, properties of benzene, phenol, amines, fats oils, acid, and hydrocarbons.
C2 01.2	Recall synthesis methods of organic compounds and elaborate their chemical reaction.
C2 01.3	Classify organic compounds based on their properties and explain their uses.

<b>Course Name :</b>	<b>C2 05</b>	<b>Course Year :</b>	<b>2-401</b>
----------------------	--------------	----------------------	--------------

<b>Course Name</b>	<b>Statements</b>
C2 05.1	Define and classify isomerism with explanation of stereo chemistry of organic compounds.
C2 05.2	Classify heterocyclic compounds by the type of ring and explain various synthesis methods.
C2 05.3	Discuss and elaborate chemical reaction and medicinal uses of heterocyclic compounds

<b>Course Name :</b>	<b>C3 01</b>	<b>Course Year :</b>	<b>3-501</b>
----------------------	--------------	----------------------	--------------

<b>Course Name</b>	<b>Statements</b>
C3 01.1	Recall the chemistry, synthesis methods of pharmacological activity of drug molecules and use for the treatment of different diseases.
C3 01.2	Discuss the therapeutic potency of drug molecules and explain metabolic pathways and ADMET.
C3 01.3	Corelate the structure of different calls of drug molecules with biological activity.

<b>Course Name :</b>	<b>C3 06</b>	<b>Course Year :</b>	<b>3-601</b>
----------------------	--------------	----------------------	--------------

<b>Course Name</b>	<b>Statements</b>
C3 06.1	Explain the importance of drug designing techniques and use for designing of newer drug molecules.
C3 06.2	Classify drug according to their biological activity and corelated their activity with structure of drug molecule.
C3 06.3	Describe the medicinal uses, metabolism, structure activity rand adverse effect of different categories of drugs.

<b>Course Name :</b>	<b>C4 01</b>	<b>Course Year :</b>	<b>4-701</b>
----------------------	--------------	----------------------	--------------

<b>Course Name</b>	<b>Statements</b>
C4 01.1	Describe various chromatographic method for analysis of drug molecules.
C4 01.2	Interpret the interaction of matter with electromagnetic radiations and apply these concepts in drug analysis.
C4 01.3	Perform quantitative and qualitative analysis of drugs using various analytical instruments.

<b>Course Name :</b>	<b>C4 05</b>	<b>Course Year :</b>	<b>4-801</b>
----------------------	--------------	----------------------	--------------

<b>Course Name</b>	<b>Statements</b>
C4 05.1	Designing of experiment by using different operation of M.S. Excel, SPSSR, and MINITAB, DoE.
C4 05.2	Memorize and elaborate various statistical techniques to solve statistical problem and use them for data analysis
C4 05.3	Application of statistical techniques for solving the problems in pharmacy.

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; atleast one per year) (5)

Institute Marks : 5.00

1 . course name : C101

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C101.1	3 ▼	3 ▼	2 ▼	1 ▼	2 ▼	2 ▼	1 ▼	- ▼	2 ▼	2 ▼	3 ▼
C101.2	3 ▼	2 ▼	2 ▼	2 ▼	2 ▼	2 ▼	1 ▼	- ▼	3 ▼	2 ▼	2 ▼
C101.3	3 ▼	3 ▼	2 ▼	2 ▼	2 ▼	2 ▼	1 ▼	- ▼	3 ▼	2 ▼	2 ▼
<b>Average</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>0.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>

2 . course name : C106

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C106.1	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	2 ▼	- ▼	- ▼	1 ▼	1 ▼	2 ▼
C106.2	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	2 ▼	1 ▼	3 ▼	2 ▼	3 ▼
C106.3	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	2 ▼	1 ▼	1 ▼	3 ▼	2 ▼	3 ▼
<b>Average</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>

3 . course name : C201

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C201.1	3 ▼	3 ▼	2 ▼	2 ▼	1 ▼	2 ▼	1 ▼	1 ▼	1 ▼	- ▼	3 ▼
C201.2	3 ▼	3 ▼	3 ▼	3 ▼	1 ▼	2 ▼	1 ▼	3 ▼	3 ▼	3 ▼	3 ▼
C201.3	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	1 ▼	1 ▼	2 ▼	3 ▼	1 ▼	3 ▼
<b>Average</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>

4 . course name : C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C205.1	3 ▼	2 ▼	2 ▼	1 ▼	- ▼	1 ▼	- ▼	1 ▼	3 ▼	- ▼	3 ▼
C205.2	3 ▼	3 ▼	3 ▼	1 ▼	2 ▼	2 ▼	- ▼	2 ▼	2 ▼	- ▼	3 ▼
C205.3	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	3 ▼	1 ▼	2 ▼	3 ▼	1 ▼	3 ▼
<b>Average</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>3.00</b>

5 . course name : C301

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C301.1	3 ▼	3 ▼	3 ▼	3 ▼	1 ▼	3 ▼	1 ▼	1 ▼	2 ▼	3 ▼	3 ▼

C301.2	3 ▼	3 ▼	3 ▼	2 ▼	- ▼	3 ▼	- ▼	1 ▼	3 ▼	- ▼	2 ▼
C301.3	3 ▼	3 ▼	3 ▼	3 ▼	1 ▼	1 ▼	- ▼	2 ▼	2 ▼	3 ▼	3 ▼
Average	3.00	3.00	3.00	3.00	1.00	2.00	1.00	2.00	2.00	3.00	3.00

6 . course name : C306

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C306.1	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	- ▼	- ▼	2 ▼	3 ▼	3 ▼	3 ▼
C306.2	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	1 ▼	- ▼	2 ▼	3 ▼	2 ▼	3 ▼
C306.3	3 ▼	3 ▼	3 ▼	1 ▼	1 ▼	2 ▼	1 ▼	2 ▼	3 ▼	2 ▼	3 ▼
Average	3.00	3.00	3.00	2.00	1.00	2.00	1.00	2.00	3.00	2.00	3.00

7 . course name : C401

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C401.1	3 ▼	3 ▼	3 ▼	2 ▼	2 ▼	1 ▼	- ▼	2 ▼	3 ▼	2 ▼	3 ▼
C401.2	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	- ▼	1 ▼	2 ▼	2 ▼	3 ▼
C401.3	3 ▼	3 ▼	3 ▼	3 ▼	1 ▼	1 ▼	- ▼	1 ▼	2 ▼	2 ▼	3 ▼
Average	3.00	3.00	3.00	3.00	2.00	1.00	0.00	1.00	2.00	2.00	3.00

8 . course name : C405

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C405.1	2 ▼	3 ▼	3 ▼	2 ▼	- ▼	1 ▼	- ▼	1 ▼	3 ▼	2 ▼	3 ▼
C405.2	3 ▼	3 ▼	3 ▼	2 ▼	- ▼	- ▼	- ▼	2 ▼	1 ▼	2 ▼	3 ▼
C405.3	3 ▼	3 ▼	3 ▼	3 ▼	2 ▼	1 ▼	- ▼	3 ▼	3 ▼	2 ▼	3 ▼
Average	3.00	3.00	3.00	2.00	2.00	1.00	0.00	3.00	2.00	2.00	3.00

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

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	3	3	2	2	2	2	1	PO8	3	2	2
BP102T	3	3	2	1	1	2	PO7	1	2	3	3
BP103T	3	2	3	2	2	2	1	2	2	2	3
BP104T	3	3	3	3	2	3	2	2	3	3	3
BP105T	3	3	3	3	3	3	2	3	3	2	3
BP106RB	2	2	2	1	1	PO6	1	1	1	1	2
BP106RM	2	2	2	1	1	PO6	PO7	3	2	3	2
BP201T	3	3	3	2	2	2	2	1	2	2	3
BP202T	3	3	2	2	2	2	2	2	2	2	3
BP203T	3	3	3	3	3	3	2	2	3	2	3
BP204T	3	3	3	2	1	2	PO7	1	3	1	3
BP205T	3	3	3	3	2	3	1	2	3	3	3
BP206T	3	3	3	3	3	2	3	3	3	1	3
BP301T	3	3	3	2	1	2	1	3	2	2	3
BP302T	3	3	3	3	1	3	2	3	3	3	3
BP303T	3	3	3	3	3	3	3	3	3	3	3
BP304T	3	3	3	3	3	2	3	3	3	3	3
BP401T	3	3	3	2	2	2	1	2	3	1	3
BP402T	3	3	3	2	2	2	1	2	3	2	3
BP403T	3	3	3	2	2	2	1	3	2	2	2
BP404T	3	3	3	3	1	3	3	3	3	3	3
BP405T	3	3	3	3	2	3	3	3	3	2	3
BP501T	3	3	3	3	1	2	1	2	2	3	3
BP502T	3	3	3	3	2	1	2	3	3	2	3
BP503T	3	3	3	3	2	3	3	3	3	3	3
BP504T	3	3	3	1	2	3	2	2	2	3	3
BP505T	3	3	3	3	3	3	2	3	3	2	3
BP601T	3	3	3	2	1	2	1	2	3	2	3
BP602T	3	3	3	2	2	2	2	2	2	1	3
BP603T	3	3	3	2	2	2	2	3	3	1	3
BP604T	3	3	3	3	2	1	1	3	3	2	3

BP605T	3	3	2	2	2	2	1	2	3	2	3
BP606T	3	3	3	3	3	2	2	3	3	2	3
BP701T	3	3	3	3	2	1	PO7	1	2	2	3
BP702T	3	3	3	2	1	3	1	3	2	2	3
BP703T	3	3	3	3	3	3	PO7	2	3	2	3
BP704T	3	3	3	3	1	1	PO7	3	3	3	3
BP809ET	3	3	3	2	2	2	3	3	3	2	3
BP805ET	3	3	3	3	1	1	2	3	3	2	3
BP801T	3	3	3	2	2	1	PO7	3	2	2	3
BP802T	3	3	3	3	3	2	3	2	3	1	3
BP803ET	2	3	3	3	3	2	1	3	3	2	3
BP807ET	3	3	3	3	3	3	3	3	3	3	3
BP808ET	2	3	3	3	3	3	2	3	3	2	3
BP810ET	2	3	3	2	2	2	2	3	3	2	3
BP811ET	3	3	3	3	3	2	PO7	3	3	3	3
BP812ET	1	2	2	2	2	2	2	2	3	PO10	3

**3.2 Attainment of Course Outcomes (40)**

Total Marks 40.00

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

Institute Marks : 10.00

**Assessment tools used to gather data**

Table. 22. Assessment tools used to gather data

S. No.	Methods/mode of course delivery	Effectiveness of mode/method	Justification
1	Sessional examination	Very Good	In the examination, students get prepared for the final examinations and improve their understanding of the subject and writing skills
2	Tutorials	Very Good	This method gives students a means to interact with the teacher and solve the queries and understand the difficulties faced in the given topic.
3	Lab test/viva	Very Good	This method provides the routine evaluation of the students
4	Assignments	Good	By preparing the assignments of certain topics the students are able to improve their writing skills and attain better understanding of the topic.
5	Final examination	Very Good	This is the most important method for evaluation of the course outcomes of the students
6	Projects	Good	This method gives students an idea of practical application of certain topics of interest to students. The research aptitude of under graduate students can be judged and improved for higher study by this method
7	Self-Study	Good	Repetitive topics are given for self-study and the performance is evaluated. It inculcates self motivation in students.

**Evaluation of course outcome**

Table 23. Evaluation of Course outcomes

Direct Methods		
	Activity	Contribution
1.	Classroom test	Regular topic-wise evaluation of students and better preparation of final examination
2.	Practical class viva voce	Knowledge of the students regarding practical work is evaluated in every practical interaction
3.	Sessional Examination	Two written sessional examination in a semester as per RGPV rules
4.	Lab work/technical skill	The practical records and technical skill/efficiency is evaluated
5.	Assignments	Selected topics are given to students for preparing assignments and questions are asked from the topic after submission. (Topics are chosen such that students can search books/pharmacopoeias or even internet to prepare them)
6.	Elective project work	The research work is submitted by the students in bound form and is evaluated by internal and external examiner.

Table 24. Methods of Assessments

Indirect Methods		
	Activity	Contribution
1.	Placement record	The number of placements attained through on-campus and off-campus interviews
2.	Higher Study record	The number of students opting for post-graduation in different institutions
3.	GPAT Performance	The number of students participating and qualifying GPAT exam every year
4.	Alumni Survey	The data collected by feedback of alumni

5.	Students Survey	The data collected by feedback of outgoing students
6	Employer's Survey	The data collected by feedback from the employers

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

Institute Marks : 30.00

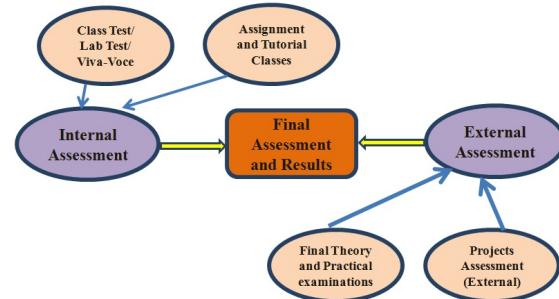
Written examinations are an important part of assessing the knowledge level of students. They provide a way to measure the students understanding and comprehension of the subject matter. Sessional tests are internal examinations that can be used to evaluate the progress of students in their studies, conducted twice in a semester. The average of two sessional tests is considered for internal assessment. The attainment levels are set in terms of student performance in internal assessments with respect to course outcomes. These levels include

**Level 1** - 60% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “1”

**Level 2** – 60% to 70% scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “2”

**Level 3 – more than 70%** scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “3”

The attainment is measured in terms of actual percentage of students getting set percentage of marks.



#### Process for assessing the attainment of each PO

#### Assessment tools for evaluation & attainment level of Pos

DIRECT ASSESSMENT			
S.No.	Assessment Tool	Frequency	Attainment Level of Programme Outcome
1.	Unit test	Twice in a session/ semester	High
2.	Practical class viva-voce	Weekly	High
3.	Sessional Examination	Twice in a session/ semester	High
4.	Lab work/technical skill	Weekly	High
5.	Assignments	Twice in a session/ semester	Medium
6.	Presentation	Once in a semester (if required)	Medium
7.	Elective project work	Once in a semester (if required)	High

INDIRECT ASSESSMENT			
1.	Training and Placement record	Once in Semester / Year	High
2.	Higher Study record	Once in Year	Medium
3.	GPAT Performance	Once in Year	Medium
4.	Alumni Feedback	Once in Year	Medium
5.	Course exit Survey	Once in Year	High

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

The program outcomes are based on the course outcomes. Several tools are described for assessing course outcomes. Thus, the tools remain the same for assessing the program outcomes.

Table 26 Assessment process to attain data:

S. No.	METHOD OF COURSE DELIVERY	EFFECTIVENESS OF METHOD	JUSTIFICATION
1.	Sessional examination	Very Good	Through examinations, students can enhance their writing skills. It also provide an opportunity for teachers to assess the students performance and
2.	Tutorial Classes	Very Good	This method of teaching provides students with an effective way to interact with their teacher and gain a better understanding of the topics they are studying. It allows students to ask questions, get answers, and solve any queries they may have.
3.	Lab test/ Viva-Voce	Very Good	It also helps teachers to identify the strengths and weaknesses of their students and create personalized learning plans for them
4.	Assignments	Good	By preparing assignments on different topics, students can become more proficient in their writing abilities and gain a better comprehension of the material (Topics are chosen such that students can search books/pharmacopoeias or even internet to prepare them)
5.	Classroom Tests	Good	This method provide the routine evaluation of the students learning skills.
6.	Final Examination	Very Good	By evaluating the course outcomes, we can ensure that our students are receiving quality education that meets their needs and prepares them for future success.
7.	Projects	Very Good	This method gives students an idea of how to use research skills in order to gain a better understanding of a particular topic or subject. It also helps them to develop critical thinking skills, which are essential for success in any field.

Table 27. Evaluation of course outcome

DIRECT METHODS		
Activity		Contribution
1.	Classroom test	Regular topic-wise evaluation of students and better preparation of final examination
2.	Practical class viva voce	This evaluation helps to ensure that students are able to understand and apply their theoretical knowledge with practical interaction in Pharma field.
3.	Sessional Examination	Two written sessional examination compulsory in a semester as per RGPV rules
4.	Lab work/technical skill	By evaluating the practical records and technical skill/efficiency of their students, teachers can ensure that they are getting the most out of theoretical knowledge.

5.	<b>Assignments</b>	They help students to gain knowledge and understanding of a particular topic. After submission questions asked from the selected topics also help students to think critically and apply their knowledge in different conditions.
6.	<b>Elective project work</b>	The research work is submitted by the students in bound form and is evaluated by internal and external examiner.
<b>INDIRECT METHODS</b>		
	<b>Activity</b>	<b>Contribution</b>
1.	<b>Training and Placement record</b>	The number of students placed through open and closed campus
2.	<b>Higher Study record</b>	The number of students opting for post-graduation in different institutions
3.	<b>GPAT Performance</b>	The number of students participating and qualifying GPAT exam every year
4.	<b>Alumni Feedback</b>	The data collected by feedback of alumni
5.	<b>Student exit Survey</b>	It is conducted to summarize the feedback of the students and course outcome attainment level. The data collected by feedback of outgoing students
6	<b>Employer's Survey</b>	The data collected by feedback from the employers

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

Institute Marks : 30.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	3	1	1	2	2	PO6	2	PO8	1	PO10	PO11
BP102T	3	2	2	2	PO5	2	PO7	2	2	PO10	PO11
BP103T	3	2	2	2	2	2	2	1	2	PO10	1
BP104T	3	2	2	2	PO5	2	2	2	2	PO10	PO11
BP105T	1	1	2	2	2	PO6	PO7	PO8	3	PO10	1
BP106RBT	2	PO2	PO3	PO4	PO5	PO6	2	PO8	1	PO10	PO11
BP106RMT	1	1	PO3	PO4	PO5	PO6	PO7	PO8	1	PO10	PO11
BP201T	3	2	1	2	2	2	PO7	2	2	PO10	2
BP202T	3	2	2	2	1	2	PO7	PO8	2	PO10	2
BP203T	3	2	2	2	2	3	2	2	3	2	1
BP204T	3	2	2	2	2	2	2	2	3	PO10	2
BP205T	1	2	2	PO4	1	PO6	PO7	2	3	2	1
BP206T	1	1	1	2	2	2	3	3	3	PO10	2
BP301T	3	2	2	2	2	2	2	PO8	2	2	PO11
BP302T	3	2	2	2	2	PO6	PO7	1	2	2	PO11
BP303T	3	2	2	2	2	2	PO7	2	1	PO10	2
BP304T	3	2	2	2	PO5	PO6	PO7	2	2	PO10	1
BP401T	3	2	2	3	PO5	2	PO7	2	2	PO10	PO11
BP402T	3	2	2	PO4	PO5	2	PO7	1	2	PO10	PO11
BP403T	3	2	1	2	PO5	PO6	PO7	PO8	2	PO10	PO11
BP404T	3	2	2	2	PO5	2	2	1	2	PO10	2
BP405T	3	2	2	2	2	3	3	2	2	PO10	PO11
BP501T	3	2	2	2	2	2	PO7	PO8	1	PO10	1
BP502T	3	2	3	3	1	2	2	1	3	2	2
BP503T	3	2	1	2	2	2	3	2	2	2	2
BP504T	3	2	2	3	2	3	3	2	2	1	1
BP505T	3	1	1	2	2	2	PO7	3	3	PO10	2
BP601T	3	2	2	3	PO5	1	2	2	2	2	PO11
BP602T	3	2	2	3	PO5	2	PO7	3	2	2	1
BP603T	3	2	2	2	3	3	3	3	3	2	2

BP604T	3	2	2	PO4	PO5	2	1	2	3	2	2
BP605T	3	2	2	2	2	2	2	3	3	2	2
BP606T	3	3	3	3	3	PO6	2	3	3	3	2
BP701T	3	3	3	3	2	PO6	PO7	2	3	3	3
BP702T	3	3	3	3	2	2	2	3	3	2	2
BP703T	3	3	3	2	2	3	2	3	3	PO10	2
BP704T	3	3	3	2	2	2	PO7	2	2	2	2
BP-809ET	3	2	3	2	2	2	2	3	3	2	3
BP805ET	3	2	3	2	2	2	PO7	2	3	2	3
BP801T	2	3	3	3	2	2	PO7	2	3	2	PO11
BP802T	3	2	2	3	2	2	1	3	3	PO10	3

**PO Attainment Level**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Direct Attainment	2.76	2.02	2.08	2.28	1.97	2.13	2.14	2.15	2.32	2.05	1.86
InDirect Attainment	2.73	2.14	2.20	2.26	2.6	2.26	2.43	2.32	2.43	2.26	2.6
PO Attainment	2.75	2.04	2.10	2.28	2.10	2.16	2.20	2.18	2.34	2.09	2.01

4 STUDENTS' PERFORMANCE (180)

Total Marks 141.23

Total Marks 20.00

**Table 4.1**

Item	2022-23 (CAY)	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)	2018-19 (CAYm4)	2017-18 (CAYm5)	2016-17 (CAYm6)
Sanctioned intake of the program(N)	100	100	100	100	100	60	60
Total number of students admitted in first year (N1)	100	108	100	100	100	60	60
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	1	3	1	1	0	0
Total number of students admitted in the programme(N1 + N2)	100	109	103	101	101	60	60

**4.1 Enrolment Ratio (20)**

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23	100	100	100.00
2021-22	100	108	108.00
2020-21	100	100	100.00

Average [ (ER1 + ER2 + ER3) / 3 ] : 102.67

Assessment : 20.00

**4.2 Success Rate in the stipulated period of the program (50)**

Total Marks 26.40

Table 4.2

Year of entry	Number of students admitted in 1st year + admitted via lateral entry in 2nd 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
2022-23 (CAY)	100				
2021-22 (CAYm1)	109	17			
2020-21 (CAYm2)	103	99	21		
2019-20 (CAYm3)	101	49	41	31	
2018-19 (LYG)	101	18	18	17	16
2017-18 (LYGm1)	60	27	25	24	24
2016-17 (LYGm2)	60	31	30	28	28

Table 4.3

Year of entry	Number of students admitted in 1st year + admitted via lateral entry in 2nd year (N1 + N2)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2022-23 (CAY)	100				
2021-22 (CAYm1)	109	106			
2020-21 (CAYm2)	103	100	90		
2019-20 (CAYm3)	101	90	90	86	
2018-19 (LYG)	101	91	81	79	79
2017-18 (LYGm1)	60	57	52	51	50
2016-17 (LYGm2)	60	54	50	50	50

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

Institute Marks : 10.20

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGM1 (2017-18)	Latest Year of Graduation minus 2 LYGM2 (2016-17)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry	101.00	60.00	60.00
Y Number of students who have graduated without backlogs in the stipulated period	16.00	24.00	28.00
Success Index [ SI = Y / X ]	0.16	0.40	0.47

Average SI [ (SI1 + SI2 + SI3) / 3 ] : 0.34

Assessment = 30 \* Average SI : 10.20

#### 4.2.2 Success rate in stipulated period (20)

Institute Marks : 16.20

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGM1 (2017-18)	Latest Year of Graduation minus 2 LYGM2 (2016-17)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry	101.00	60.00	60.00
Y Number of students who have graduated in the stipulated period	79.00	50.00	50.00
Success Index [ SI = Y / X ]	0.78	0.83	0.83

Average SI[ ( SI1 + SI2 + SI3 ) / 3 ] : 0.81

Assessment = 20 \* Average SI : 16.20

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

#### 4.3 Academic Performance in Final Year (10)

Total Marks 7.08

Institute Marks : 7.08

Academic Performance	2018-19 (LYG)	2017-18 (LYGM1)	2016-17 (LYGM2)
Mean of CGPA or mean percentage of all successful students(X)	7.51	7.04	6.83
Total number of successful students(Y)	79.00	50.00	50.00
Total number of students appeared in the examination(Z)	79.00	51.00	50.00
API [ X*(Y/Z) ]:	7.51	6.90	6.83

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.08

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.08

#### 4.4 Academic Performance in Third Year (10)

Total Marks 7.07

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.34	7.50	7.04
Total number of successful students (Y)	86.00	79.00	51.00
Total number of students appeared in the examination (Z)	90.00	81.00	52.00
API [ X * (Y/Z) ]	7.01	7.31	6.90

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.07

Academic Performance = Average API [ (AP1 + AP2 + AP3)/3 ] : 7.07

#### 4.5 Academic Performance in Second Year (10)

Total Marks 6.75

Institute Marks : 6.75

Academic Performance	2020-21 (CAYm2)	2019-20 (CAYm3)	2018-19 (LYG)
Mean of CGPA or mean percentage of all successful students(X)	6.98	7.73	7.38
Total number of successful students(Y)	90.00	90.00	81.00
Total number of students appeared in the examination(Z)	103.00	91.00	92.00
API [ X*(Y/Z) ]:	6.10	7.65	6.50

Average API [ (AP1 + AP2 + AP3)/3 ] : 6.75

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 6.75

#### 4.6 Academic Performance in First Year (20)

Total Marks 13.93

Institute Marks : 13.93

Academic Performance	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)
Mean of CGPA or mean percentage of all successful students(X)	6.15	8.20	7.39
Total number of successful students(Y)	106.00	100.00	90.00
Total number of students appeared in the examination(Z)	108.00	100.00	100.00
API [ X*(Y/Z) ]:	6.04	8.20	6.65

Average API [ (AP1 + AP2 + AP3)/3 ] : 6.96

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 6.96

#### 4.7 Placement and Higher Studies (40)

Total Marks 40.00

Item	2018-19 (LYG)	2017-18 (LYGm1)	2016-17 (LYGm2)
Total No of Final Year Students(N)	79.00	51.00	50.00
Number of students placed in Industries/ Hospitals/ Government sector through on/off campus recruitment or opted for Entrepreneurship(x)	66.00	41.00	37.00
No. of students admitted to higher studies with valid scores in various qualifying exams(y)	13.00	10.00	13.00
Placement Index [ (X + Y)/N ] :	1.00	1.00	1.00

Average Placement [ (X + Y)/N ] : 1.00

Assessment [ 40 \* Average Placement] : 40.00

---

#### 4.8 Professional Activities (20)

Total Marks 20.00

Table: Professional society's membership of Faculty

S.no.	Faculty Name	Professional membership details								
		Registered Pharmacist	IPA	SFE INDIA	APTI	IPGA	IHPA	VIBHA	SPER	InPharm association
1.	Dr. Surendra K Jain	24160	MP/IND/LM/0107	SFE/22/I-2321	MP/LM/057	---	ALM50139	LM946	---	
2.	Dr Rajesh Singh Pawar	247	MP/IND/LM/0113	SFE/14/I-1130	MP/LM/261	LM5373	---	LM947	---	322PM2009
3.	Anand Kumar Chhajed	35870	---	---	---	---	---	---	---	---
4.	Archana Bagre	21957	---	SFE/22/I-2066	MP/LM-457	---	---	LM-958	---	---
5.	Asra Ali	Ph202263229	---	---	---	---	---	---	---	---
6.	Avnish	12545	---	---	---	---	---	---	---	---
7.	Deepak Kumar Jain	13499	---	---	---	---	---	---	---	---
8.	Dr Yogesh Kumar Katare	23863	---	---	---	---	---	---	---	---
9.	Gaurav Rawat	45904	---	---	---	---	---	---	---	---
10.	Kajal Khan	82736	---	---	---	---	---	---	---	---
11.	Kanika Dhote	25462	---	---	---	---	---	---	SPER/LM/MP/036	---
12.	Keshav Sahu	47296	---	---	---	---	---	---	---	---
13.	Khushbu Rani Sahu	47180	---	---	---	---	---	---	---	---
14.	Krishna Kishore	17488	---	---	---	---	---	---	---	---
15.	Kuldeep Tripathi	48106	---	---	---	---	---	---	---	---
16.	Lalmani Lodhi	27737	---	---	---	---	---	---	---	---
17.	Mahipal Patel	49099	---	---	---	---	---	---	---	---
18.	Manisha Bharti	52043	---	---	MP/LM-837	---	---	---	---	---
19.	Md Anaytullah	42007	---	---	---	---	---	---	---	---
20.	Mohd Abdul Aali Khan	50028	---	---	---	---	---	---	---	---
21.	Neetu Chaurasia	48845	---	---	---	---	---	---	---	---
22.	Niharika Thakur	27410	---	---	---	---	---	---	---	---
23.	Nitin Saini	23568	---	---	---	---	---	---	---	---
24.	Poonam Gonekar	28777	---	---	---	---	---	---	---	---
25.	Pradeep Kumarpati	37974	---	---	---	---	---	---	---	---
26.	Preeti Chourasiya	29195	---	---	---	---	---	---	---	---
27.	Raghvendra Prasadshivhare	40966	---	---	---	---	---	---	---	---
28.	Rishi Raj Shrivastava	37971	---	---	---	---	---	---	---	---
29.	Ritu Sirwani	37941	---	---	---	---	---	---	---	---
30.	Ruksar	51480	---	---	---	---	---	---	---	---

31.	Santosh Kumar Sharma	16426	---	---	---	---	---	---	---	---	---
32.	Seerat Anwar	37618	---	---	---	---	---	---	---	---	---
33.	Shalini Bajaj	29969	---	---	MP/LM-836	---	---	---	---	---	---
34.	Shikha Patel	28667	---	---	---	---	---	---	---	---	---
35.	Shubham Vishwakarma	54088	---	---	---	---	---	---	---	---	---
36.	Sonika Prajapati	63064	---	---	---	---	---	---	---	---	---
37.	Vinod Kumar Dhote	19109	---	---	---	LM4285	---	---	SPER/LM/MP/024	---	---
38.	Vinod Yadav	24366	---	---	---	---	---	---	---	---	---

**4.8.2 Publication of technical magazines, newsletters, etc. (5)**

Institute Marks : 5.00

Table 30. Publication of technical magazines/ Newsletter

Sl No.	Name of Publications	Publication Type	Year of Publication	Name of the Editors	Name of the Student Editors	Publisher
	PHARMATHESAURUS	NEWSLETTER	2022	Dr. Surendra Jain Dr. Rajesh Singh Pawar Mr Vinod Kumar Dhote	Mr Sourabh Mishra  Ms Prerna Priyadarshani	TASK
	PHARMATHESAURUS	NEWSLETTER	2021	Dr. Rajesh Singh Pawar Ms Kanika Dhote	Ms Akshita Sinha Mr Rasheed Rayeen	TASK
	PHARMATHESAURUS	NEWSLETTER	2020	Dr. Rajesh Singh Pawar Ms Namita Badoniya	Ms Aarti Kushwah Mr. Sourabh Rav	TASK

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

Institute Marks : 10.00

Table. 31 Research Article of Students

YEAR	Student Name	GUIDE NAME	Title	Journal Name
2019	ATIYA	Dr. Har govind garg	Evaluation of anti-Diabetic potential of Hydroalcoholic extract of Cordia Dichotoma	Indo American journal of pharmaceutical sciences ISSN 2349-7750
2019	Akanksha Mishra	Dr. Rajesh Singh Pawar	Pharmacological Screening of Cassia Sophera (plant) for Rheumatoid Arthritis activity	International journal of innovative research in technology Paper id :156110 ISSN:2349-6002
2019	Imran Hussain	Dr. Har Govind Garg	Phytopharmacological screening juice of Triticum Aestivum and Curcuma longa leaves against indomethacin induced peptic ulcer	Asian journal of pharmaceutical education and research AJPER-2022-536
2020	Sarfraz ahmed	Mr. Vinod Dhote	Formulation and development of Methoxsalen loaded nanogel for management of psoriasis	European journal of biomedical and pharmaceutical sciences ISSN-2349-8870
2020	Sadiya karim	Md. Abdul Aali Khan	Preparation and Solubility Enhancement of Solid Dispersion of poorly Soluble lisinopril Drug	European journal of biomedical and pharmaceutical sciences ISSN-2349-8870
2020	Shashwat Singh	Mr. Vinod Dhote	Formulation and evaluation of chitosan nanoparticles of esomeprazole for the management of gastroesophageal reflux disease	European journal of biomedical and pharmaceutical sciences ISSN-2349-8870
2019	Tabassum Bano	Md. Abdul Aali Khan	Formulation and evaluation of tablet based on solid dispersion of Antihistaminic drug	International journal of innovative research in technology ISSN-2349-6002

## 5 FACULTY INFORMATION AND CONTRIBUTIONS (175)

Total Marks 132.71

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
SHIKHA PATEL	EPVPS5624L	M.Pharm	18/03/2014	QUALITY ASSURANCE	0	0	0	Assistant Professor		21/09/2021	Regular	Yes		No
RUKHSAR	BWMPR5322M	M.Pharm	16/08/2021	PHARMACEUTICAL CHEMISTRY	2	0	0	Assistant Professor		16/08/2021	Regular	Yes		No
POONAM GONEKAR	BEYPG0488P	M.Pharm	18/03/2014	PHARMACEUTICAL CHEMISTRY	0	0	0	Assistant Professor		01/12/2021	Regular	Yes		No
DEEPA SONI	KJGPS5724C	M.Pharm	15/10/2019	PHARMACOLOGY	0	0	0	Assistant Professor		04/01/2021	Regular	Yes		No
VINOD YADAV	AJFPY8276J	M.Pharm	01/07/2011	PHARMACOGNOSY	0	0	0	Assistant Professor		05/01/2019	Regular	Yes		No
LALMANI LODHI	AMKPL2637G	M.Pharm	10/07/2012	QUALITY ASSURANCE	0	0	0	Assistant Professor		05/03/2019	Regular	Yes		No
NEETU CHAURASIA	BJBPC0159B	M.Pharm	01/12/2018	PHARMACOLOGY	0	0	0	Assistant Professor		01/02/2019	Regular	Yes		No
PREETI CHAURASIA	ARRPC4380M	M.Pharm	25/05/2016	PHARMACOLOGY	0	0	0	Associate Professor	08/01/2022	01/12/2018	Regular	Yes		No
RITU SIRWANI	FQZPS3191G	M.Pharm	25/05/2017	PHARMACEUTICS	0	0	0	Assistant Professor		15/05/2018	Regular	Yes		No
MD ABDUL AALI	EDFPK9139C	M.Pharm	07/01/2019	PHARMACEUTICS	3	0	0	Assistant Professor		15/11/2018	Regular	Yes		No
DR SURENDRA JAIN	ADHPJ0355M	M.Pharm and Ph.D	10/03/2004	PHARMACEUTICAL CHEMISTRY	115	8	0	Professor	17/05/2021	17/05/2021	Regular	Yes		Yes
DR RAJESH SINGH PAWAR	AMWPP7721K	M.Pharm and Ph.D	18/04/2007	PHARMACOGNOSY	86	4	0	Professor	01/11/2018	01/11/2018	Regular	Yes		No
KANIKA DHOTE	CEYPK1103C	M.Pharm	28/03/2012	PHARMACOGNOSY	31	0	0	Associate Professor	09/01/2017	09/01/2017	Regular	Yes		No
KHUSHBURANI SAHU	ISOPS2140B	M.Pharm	08/10/2018	PHARMACEUTICS	0	0	0	Assistant Professor		23/08/2021	Regular	Yes		No
SEERAT ANWAR	DBYPA1599C	M.Pharm	08/10/2018	PHARMACEUTICS	1	0	0	Assistant Professor		01/12/2021	Regular	Yes		No
SHUBHAM VISHWAKARMA	BPEPV9400H	M.Pharm	24/12/2018	PHARMACEUTICAL CHEMISTRY	1	0	0	Assistant Professor		16/08/2021	Regular	Yes		No
RAGHVENDRA SHIVHARE	ELBPS1754R	M.Pharm	03/06/2019	PHARMACEUTICS	0	0	0	Assistant Professor		21/01/2019	Regular	Yes		No

SANTOSH KUMAR SHARMA	BXAPS7350F	M.Pharm	28/11/2007	PHARMACEUTICAL ANALYSIS	0	0	0	Associate Professor	27/01/2018	27/01/2018	Regular	Yes		No
KESHAV SAHU	GEWPS2144H	M.Pharm	04/01/2018	PHARMACEUTICS	0	0	0	Assistant Professor		01/12/2021	Regular	Yes		No
ANAND KUMAR CHHAJED	ANKPC8650P	M.Pharm	09/08/2012	PHARMACOLOGY	0	0	0	Associate Professor	02/09/2021	02/09/2021	Regular	Yes		No
VINOD KUMAR DHOTE	AQCPD2197F	M.Pharm	23/03/2012	PHARMACEUTICS	55	0	0	Associate Professor	02/05/2016	12/01/2012	Regular	Yes		No
NIHARIKA THAKUR	AMNPT1731C	M.Pharm	23/03/2013	PHARMACEUTICS	15	0	0	Associate Professor	01/11/2021	01/12/2018	Regular	Yes		No
RITU SINGH	IBDPS8931L	M.Pharm	04/07/2017	PHARMACEUTICAL CHEMISTRY	0	0	0	Assistant Professor		02/02/2018	Regular	No	01/01/2022	No
TOSHI DUBEY	CJYPD8261R	M.Pharm	03/04/2014	PHARMACOLOGY	0	0	0	Assistant Professor		01/01/2019	Regular	No	30/11/2021	No
SHEETAL SHARMA	FEGPS2577D	M.Pharm	01/12/2012	PHARMACEUTICAL CHEMISTRY	0	0	0	Assistant Professor		01/03/2016	Regular	No	18/07/2022	No
MD ANAYTULLAH	APUPA7524G	M.Pharm	09/12/2010	PHARMACEUTICS	0	0	0	Associate Professor	02/05/2016	01/03/2011	Regular	No	02/11/2021	No
VIVEK YADAV	AIKPY8905E	M.Pharm	24/01/2018	PHARMACEUTICS	0	0	0	Assistant Professor		03/05/2019	Regular	No	01/05/2021	No
AJAY GUPTA	BENPG2730K	M.Pharm	23/03/2018	PHARMACEUTICAL CHEMISTRY	0	0	0	Assistant Professor		03/05/2019	Regular	No	30/04/2021	No
SONIKA PRAJAPATI	EMEPP7439E	M.Pharm	21/04/2022	PHARMACEUTICAL CHEMISTRY	1	0	0	Assistant Professor		01/12/2021	Regular	Yes		No
GAURAV RAWAT	BMOPR8103E	M.Pharm	25/05/2017	PHARMACOLOGY	0	0	0	Assistant Professor		07/01/2019	Regular	Yes		No
MAHIPAL PATEL	CQUPP4199R	M.Pharm	25/05/2017	PHARMACOLOGY	1	0	0	Assistant Professor		22/10/2018	Regular	Yes		No
MEGHA VISHWAKARMA	AQDPV4690L	M.Pharm	25/05/2016	PHARMACEUTICS	0	0	0	Assistant Professor		01/01/2019	Regular	No	01/01/2022	No
KRISHNKISHOR BADONIYA	AZEPB3536B	M.Pharm and Ph.D	16/11/2021	PHARMACOLOGY	2	0	0	Associate Professor	02/11/2022	02/11/2022	Regular	Yes		No
PRADEEP KUMAR PATERIYA	CXTPP0230M	M.Pharm	24/06/2013	PHARMACOLOGY	6	0	0	Assistant Professor		04/01/2021	Regular	Yes		No
RISHI RAJ SHRIVASTAVA	DBNPS0595F	M.Pharm	17/07/2017	PHARMACOLOGY	1	0	0	Assistant Professor		25/01/2021	Regular	Yes		No
Dr YOGESH KUMAR KATARE	BXRPK8887J	M.Pharm and Ph.D	27/06/2007	PHARMACEUTICS	16	0	0	Professor	04/01/2021	04/01/2021	Regular	Yes		No

NAMITA BADONIYA	DEJPB2439L	M.Pharm	30/06/2017	PHARMACEUTICS	0	0	0	Assistant Professor		12/01/2018	Regular	No	10/08/2021	No
Dr MANISH SHARMA	CGSPS8866E	M.Sc and Ph.D	23/07/2016	Mathematics	1	0	0	Assistant Professor		05/08/2011	Contractual	Yes		No
NABAB KHAN	HKHPK5175E	M.Pharm	22/08/2018	PHARMACEUTICS	0	0	0	Assistant Professor		03/05/2019	Regular	No	30/04/2021	No
NITIN SAINI	FQWPS9041G	M.Pharm	22/07/2015	PHARMACEUTICAL CHEMISTRY	0	0	0	Assistant Professor		01/05/2018	Regular	Yes		No
VARSHA AHIRWAR	AZUPA2566J	M.Pharm	18/03/2014	PHARMACOLOGY	0	0	0	Associate Professor	18/01/2022	18/03/2014	Regular	Yes		No
VIPUL PATEL	CFQPP7038Q	M.Sc	01/09/2016	BIOTECHNOLOGY	2	0	0	Lecturer		01/09/2016	Regular	No	30/04/2022	No
DR SHALINI BAJAJ	BJZPB9375C	M.Pharm and Ph.D	12/02/2021	PHARMACEUTICAL CHEMISTRY	12	0	0	Associate Professor	04/07/2022	04/07/2022	Regular	Yes		No
DR ARCHNA BAGRE	BECPP8309G	M.Pharm and Ph.D	15/02/2021	PHARMACEUTICAL BIOTECHNOLOGY	8	0	0	Professor	04/06/2022	04/06/2022	Regular	Yes		No
KAJAL KHAN	ENUPK0299E	M.Pharm	18/03/2020	PHARMACOLOGY	0	0	0	Assistant Professor		09/05/2022	Regular	Yes		No
MANISHA BHARTI	FBBPB5851D	M.Pharm	19/05/2020	PHARMACOLOGY	0	0	0	Assistant Professor		06/04/2022	Regular	Yes		No
AAYSHA SHABNAM	JGZPS1488C	M.Pharm	04/03/2015	PHARMACEUTICS	0	0	0	Assistant Professor		01/08/2022	Regular	Yes		No
LOKESH VERMA	BLJPV7410C	M.Pharm and Ph.D	15/02/2019	PHARMACOLOGY	0	0	0	Professor		09/03/2019	Regular	No	30/04/2022	No
DR HARGOVIND GARG	AMYPG6786F	M.Pharm and Ph.D	15/02/2021	PHARMACOLOGY	6	0	0	Professor		05/01/2017	Regular	Yes		No

5.1 Student-Faculty Ratio (SFR) (20)

Total Marks 20.00

## UG

Institute Marks : 20

No. of UG Programs in the Department | 1

Year of Study	Pharmacy					
	CAY		CAYm1		CAYm2	
	(2022-23)		(2021-22)		(2020-21)	
Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	
1st Year	100	0	100	0	100	0
2nd Year	100	1	100	3	100	1
3rd Year	100	3	100	1	100	0
4th Year	100	1	100	0	60	0
<b>Sub-Total</b>	<b>400</b>	<b>5</b>	<b>400</b>	<b>4</b>	<b>360</b>	<b>1</b>
<b>Total</b>	<b>405</b>		<b>404</b>		<b>361</b>	
Grand Total	405		404		361	

## PG

No. of PG Programs in the Department | 2

Year of Study	Master of Pharmacy Pharmaceutics					
	CAY(2022-23)		CAYm1(2021-22)		CAYm2 (2020-21)	
	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	15		15		15	
2nd Year	15		15		15	
<b>Total</b>	<b>30</b>		<b>30</b>		<b>30</b>	
Master of Pharmacy Pharmacology						
Year of Study	CAY(2022-23)		CAYm1(2021-22)		CAYm2 (2020-21)	
	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake	Sanction Intake
	15		15		15	
1st Year	15		15		15	
2nd Year	15		15		15	
<b>Total</b>	<b>30</b>		<b>30</b>		<b>30</b>	
Grand Total	60		60		60	

## SFR

No. of UG Programs in the Department | 1

No. of PG Programs in the Department | 2

Description	CAY(2022-23)	CAYm1 (2021-22)	CAYm2 (2020-21)
Total No. of Students in the Department(S)	465 students	464 students	421 students
No. of Faculty in the Department(F)	38 F1	34 F2	29 F3
Student Faculty Ratio(SFR)	12.24 <b>SFR1=S1/F1</b>	14.52 <b>SFR2=S2/F2</b>	13.65 <b>SFR3=S3/F3</b>
Average SFR	13.47 <b>SFR=(SFR1+SFR2+SFR3)/3</b>		
<b>F=Total Number of Faculty Members in the Department (excluding first year faculty)</b>			

**Note:** 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource persons 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.

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
CAY(2022-23)	37	1
CAYm1(2021-22)	32	1
CAYm2(2020-21)	27	1

Average SFR for three assessment years : 13.47

Assessment SFR : 20

#### 5.2 Faculty Cadre Proportion (20)

Total Marks 18.00

Institute Marks : 18.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	3.00	5.00	6.00	2.00	20.00	30.00
CAYm1(2021-22)	3.00	5.00	6.00	0.00	20.00	27.00
CAYm2(2020-21)	3.00	2.00	6.00	0.00	18.00	25.00
Average Numbers	3.00	4.00	6.00	0.67	19.33	27.33

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) \* 0.6] + [(AF3 / RF3) \* 0.4] ] \* 10 : 18.00

#### 5.3 Faculty Qualification (20)

Total Marks 11.36

	X	Y	F	$FQ = 2.0 \times [(10X + 6Y) / F ]$
2022-23(CAY)	8	30	30.00	13.33
2021-22(CAYm1)	6	28	30.00	11.47
2020-21(CAYm2)	3	25	28.00	9.29

Average Assessment : 11.36

---

#### 5.4 Faculty Retention (20)

Total Marks 12.00

Institute Marks : 12.00

Description	2021-22	2022-23
No of Faculty Retained	18	17
Total No of Faculty	27	27
% of Faculty Retained	67	63

Average : 65.00

Assessment Marks : 12.00

---

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

Total Marks 15.00

We at Truba Institute of Pharmacy implements modern techniques for teaching and learning. We have well equipped classrooms with LCD projector and smart classrooms for proper interaction with the students. As faculties are encouraged for Information and Communication Technology (ICT) based faculty development programmes. They constantly use new techniques in teaching process. Students are shown models, animation and videos for better understanding in the classroom.

Faculty members encourage students to use **google classroom** including videos and web pages into lessons, and create collaborative group assignments aiming to simplify creating, distributing and grading assignments in a paperless way with easy accessibility. Faculty creates an online classroom, invite students to the class then create and distribute assignments, MCQ's. Faculty can monitor the progress for each student and after being graded along with the comments. Students can use thus classroom anytime and anywhere.

Students use **simulated softwares** for Pharmacology as an electronic resource for learning, providing resources from a range of simulations of laboratory experiments including isolated tissue preparations, *in-vivo* animal preparation and some human experiments.

Our **institute's website** has been made very student friendly wherein all the information and past question papers are made available to the students. We have Wi-Fi enabled premises with 100 Mbps Internet bandwidth speed. Language laboratory facility is made available to students for enhancing communication and soft skills.

To facilitate better learning to the students, our faculty members are involved in writing books and developing laboratory manuals. Faculty set online and offline MCQs to train students for competitive exams like GPAT. Assignments on selected topics are being introduced and are self-learning exercises for the students, where in the faculty acts as a facilitator.

Students are encouraged to perform **minor research project** which helps them to design, plan and execute the work to impart creativity and confidence. The findings of the said work can be published in research journals. Students have carried out numerous projects and revealed their merit in various seminars / conferences in poster / oral presentation competitions. Such type of activity helps students in out of box thinking to develop new product.

We at Truba Institute of Pharmacy encourage students' participation in different seminars and conferences to boost and update their knowledge in the Pharmaceutical field.

- **Soft skill classes for personality development:** Regular seminars are arranged for students to enhance their soft skills, better communication and personality development. Renowned personalities from different discipline are invited for their expert talk.
- **Problem based learning:** The classroom discussions are not always one way communication. Faculties while teaching ask questions to students about the topic and find solutions for it. Here the students' knowledge about the subject is tested and his ability to find solution to the problem is checked. Such type of activity encourages active participation of the student in the discussion and creates interest and excitement in the learning process.
- **Industrial visits:** Objective of industrial visit is to provide students an insight regarding internal working of industries, product development processes, quality testing etc. Theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visits provide students a practical perspective on the world of work.
- **Mentorship Activity:** We at TIP execute Tutor-Guardian program to improve the performance of student by regular counselling and providing moral support. For every faculty around 15-24 students are allotted for mentoring. Mentor conducts frequent meetings to interact with the students and parents.
- **Slow learners and fast learners Identification:** Through result analysis of internal sessional examination and semester examination, we identify slow learners and fast learners. Faculty try to improve the performance of slow learners by regular counselling and providing moral support. Course in-charge and mentor help the students to improve by conducting group discussions, solving previous question papers and discussion on difficult topics and encouraging them for regular attendance. Fast learners are felicitated in the annual day function for their outstanding performance.
- **Sharing of experience at international platform:** Sharing of experience by faculty members attending international conference is beneficial to colleagues and students of the program.

#### 5.6 Faculty as participants in Faculty Development/Training Activities (15)

Total Marks 13.35

Name of the faculty	Max 5 Per Faculty		
	2022-23	2021-22	2020-21
DR SURENDRA JAIN	5.00	5.00	5.00
DR RAJESH SINGH PAWAR	5.00	5.00	5.00
DR SHALINI BAJAJ	5.00	5.00	5.00
DR ARCHNA BAGRE	5.00	5.00	2.00
VINOD KUMAR DHOTE	5.00	5.00	5.00
KANIKA DHOTE	5.00	5.00	5.00
NIHARIKA THAKUR	5.00	5.00	5.00
MD ABDUL AALI	3.00	4.00	1.00
KAJAL KHAN	1.00	2.00	1.00
VIPUL PATEL	5.00	2.00	5.00
SONIKA PRAJAPATI	2.00	0.00	0.00
SEERAT ANWAR	2.00	0.00	0.00
GAURAV RAWAT	2.00	0.00	0.00
MAHIPAL PATEL	2.00	0.00	0.00
MEGHA VISHWAKARMA	2.00	0.00	0.00
KRISHNKISHOR BADONIYA	2.00	0.00	0.00
PRADEEP KUMAR PATERIYA	2.00	0.00	0.00
RISHI RAJ SHRIVASTAVA	2.00	0.00	0.00
Dr YOGESH KUMAR KATARE	2.00	2.00	2.00
RUKHSAR	2.00	0.00	0.00
POONAM GONEKAR	2.00	0.00	0.00
KHUSHBURANI SAHU	3.00	0.00	0.00
KESHAV SAHU	5.00	0.00	0.00

SANTOSH KUMAR SHARMA	2.00	0.00	0.00
ANAND KUMAR CHHAJED	2.00	0.00	0.00
NITIN SAINI	2.00	0.00	0.00
MANISHA BHARTI	2.00	0.00	0.00
AAYSHA SHABNAM	2.00	0.00	0.00
RAGHVENDRA SHIVHARE	2.00	0.00	0.00
SHUBHAM VISHWAKARMA	2.00	0.00	0.00
RITU SIRWANI	2.00	0.00	0.00
LALMANI LODHI	2.00	0.00	0.00
VINOD YADAV	2.00	0.00	0.00
POONAM GONEKAR	2.00	0.00	0.00
Dr MANISH SHARMA	5.00	5.00	5.00
SHIKHA PATEL	1.00	1.00	0.00
DEEPA SONI	1.00	0.00	0.00
NEETU CHAURASIA	0.00	1.00	0.00
PREETI CHAURASIA	1.00	0.00	0.00
Sum	104.00	52.00	46.00
RF = Number of Faculty required to comply with 15:1 Student Faculty Ratios per 5.1	31.00	30.93	28.07
Assessment [3*(Sum / 0.5RF)]	20.13	10.09	9.83

Average assessment over 3 years: 13.35

**5.7 Research and Development (40)**

Total Marks 18.00

**5.7.1 Academic Research (10)**

Institute Marks : 10.00

We at Truba Institute of Pharmacy, Bhopal quality education in pharmacy and promote faculty members to conduct minor research project and the output of the same to be presented at various regional, state or national level conference/seminars or allow to publish a research data in various national / international journals. Following table indicates number of publications, PhD guided/awarded students and book or book chapters published by faculty members in last 3 academic years.

S.no	Faculty Name	Publications	PhD. Guided/ Awarded	Books/book chapter
1.	Dr. Surendra K Jain	29	08	08
2.	Dr. Rajesh Singh Pawar	12	04	04
3.	Dr. Archana Bagre	06	-	-
4.	Dr. Krishn Kishore Badoniya	2	-	-
5.	Dr. Shalini Bajaj	12	-	-
6.	Dr. Yogesh Kumar Katare	11	-	-
7.	Mr Vinod Kumar Dhote	12	-	04
8.	Ms Kanika Dhote	13	-	03
9.	Mr Avnish	1	-	-
10.	Mr Deepak Kumar Jain	11	-	-
11.	Mr Mohd Abdul Aali Khan	1	-	-
12.	Mr Vipul Patel	2	-	-
13.	Ms Manisha Bharti	1	-	-
14.	Ms Niharika Thakur	6	-	-
15.	Ms Ruksar	1	-	-
16.	Ms Seerat Anwar	1	-	-
17.	Ms Sonika Prajapati	1	-	-

**5.7.2 Sponsored Research (10)**

Institute Marks : 3

2022-23

Project Title	Duration	Funding Agency	Amount (in Rupees)
NA	0	0	0.00
			Total Amount(X): 0.00

2021-22

Project Title	Duration	Funding Agency	Amount (in Rupees)
Biomarkers as targeted herbal drug discovery	2	AICTE New Delhi- All India Council for Technical Education	500000.00
			Total Amount(Y): 500000.00

2020-21

Project Title	Duration	Funding Agency	Amount (in Rupees)
Applications of High throughput screening methods based on molecular markers in new drug discovery	2	Department of Biotechnology New Delhi	100000.00
			Total Amount(Z): 100000.00

Cumulative Amount(X + Y + Z) = 600000.00

5.7.3 Consultancy (from Industry) (10)

Institute Marks : 0

2022-23

Project Title	Duration	Funding Agency	Amount (in Rupees)

2021-22

Project Title	Duration	Funding Agency	Amount (in Rupees)

2020-21

Project Title	Duration	Funding Agency	Amount (in Rupees)

Cumulative Amount(X + Y + Z) = 0

**5.7.4 Honorary Consultancy from Central/State/Local Government Organizations (5)**

Institute Marks : 0.00

Nil

**5.7.5 Development activities (5)**

Institute Marks : 5.00

Our institute always emphasize on the continuous development of the students and the faculty members. The faculty members are continuously engaged in research activities. Our college has well equipped library with Hard copy journals and soft copy journals. College provides book bank facilities to students. Students are encourage to use language laboratory to enhance their communication and soft skills. This laboratory of college is well equipped with standard operating procedures. Informative charts are displayed in the laboratories to assist them in understanding and remembering the concepts. Students of our college actively participate in various social awareness Programs like Swaach Bharat Abhiyan, Swachata rallies, blood donation, NSS camps, etc. College has board of student development under which different activities are conducted as per regular circulars of the university.

**Working Models:**

Students have developed different working models related to subjects and presented in various competitions.

**Research laboratories:**

Our College has well equipped laboratories with specialised equipment's and Machines like Dissolution test apparatus, Brookfield Viscometer, HPLC, UV Spectrophotometer, Homogenizer, Cooling Centrifuge, tablet compression machine, coating machine, all-purpose equipment ,etc. students utilize such equipment's for regular practical and undergraduate research projects. Instruments available in all the laboratories are provided with Standard Operating Procedures

**Instructional Materials:**

Laboratory manuals are made available to students. Question papers are made available to students in library and on website. Faculties provide some of the instructional material to students through links from websites.

**Charts:**

Informative charts are placed in laboratories, passages, corridors, entry of the college for active learning by the students. Simplified charts are available in Pharmacognosy and Pharmacology laboratories for better understanding by the students.

The faculty members prepare various applications for the research activities grants by various funding agencies like AQIS, ICMR, ICAR, NMPB, MPCoST, DBT, DST, SERB, AICTE etc



5.8  
Faculty Performance Appraisal and Development System (FPADS)  
(20)

Total Marks 20.00

Faculties of Higher Education Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty needs to innovate and conduct research for their self-renewal, keep abreast with changes in technology, develop expertise for the effective implementation of curricula.

The Appraisal system for the employees of the Institution is based on Self Appraisal System. The Appraisal forms are filled by the employees every year and it follows the hierarchical progressive System. Performance based Self-Appraisal takes into account a 360 degree evaluation. The faculty is assessed annually by the Self-Appraisal method, Peer Evaluation and a robust Student Feedback System.

The analysis is done based on the following parameters: Results, number of seminars, conferences and QIPs attended, contribution to the college and community, books, papers and patents published, grants received and special awards, consultancy work; student feedback is however, given top priority and this is duly communicated at personal level by the Principal to the teacher. A teacher who secures 100% results in his/her subject is motivated by being presented with a Certificate of Appreciation.

Fig. 15 Sample Faculty performance appraisal System

 **Truba Institute of Pharmacy, Bhopal**  
PERFORMANCE APPRAISAL & DEVELOPMENT SYSTEM  
(PADS)

Semester \_\_\_\_ / Session 20 - 20

(To be filled by each Teaching Faculty member, Please attach Extra Sheet wherever Required)

Max. Marks: 100

1. Name: \_\_\_\_\_

2. Date of Birth: \_\_\_\_\_

3. Academic Qualification: \_\_\_\_\_

4. Designation: \_\_\_\_\_

5. Department: \_\_\_\_\_

6. Date of Joining the College: \_\_\_\_\_

7. Date of Joining (Present Post): \_\_\_\_\_

8. Teaching Experience, Industrial Experience: \_\_\_\_\_

9. Membership/Fellowships of Professional Bodies / Societies/ Committees: [Max. Marks: 5]

\_\_\_\_\_

\_\_\_\_\_

10. Teaching and Laboratory Work: [Max. Marks: 15]

SN.	Sem.	Subject	Weekly Period			Total No. of Period Engaged during Semester			
			Th.	Pr.	Total	Th.	Pr.	Extra Period if any	Total
1									
2									
3									
Total									

11. Performance of Students in the University Examination for the Subjects taught during the previous semester / Session. [Max. Marks: 20]

SN	Sem.	Subject	No. of Students							
			App	Pass	*Pass %	obtain ≥ 60%	< 50%	≥ 50%	≥ 0%	Score
1										
2										
3										
4										

Grand Total of all the score =  
Marks = Grand Score / No. of Students =

Note: The Marks for an individual teacher for this item shall be calculated as follows:

12. Details of Teaching Aids / Instructional material and Methodology used in the Teaching. 15  
\_\_\_\_\_
13. Details of Innovation / Contribution made for improving the Teaching and Learning Activity  
e.g. Delivering Special Lecture on the subjects/Teaching latest trends in the subject. 5  
\_\_\_\_\_
14. Details of Project Guidance / Writing Books / conducting Special classes or training /  
Reviewer of Paper for Journals 5  
\_\_\_\_\_
15. Research and Development Work (Publication of papers, Research projects, patent 5  
\_\_\_\_\_
16. Seminars/Workshops/Conference/Symposia /training Programmes /Orientation Course /  
summer/Winter School / Continuing Education Programmes Etc. Arranged / Attended 5  
\_\_\_\_\_
17. Awards / Special Achievement / Recognition / Honor / Citation Conferred 10  
\_\_\_\_\_
18. Self Development through upgrading Qualification / Teaching or Learning New Subjects. 5  
\_\_\_\_\_
19. Co-Curricular Activities & Administrative Work 10  
\_\_\_\_\_
20. Details of Leave Taken during the semester / Session (Number of Days) 5  
\_\_\_\_\_

21. Self Analysis

---

**22. Future Planning**

---

---

23. Difficulties Faced and Suggestions for Improvement in Professional life / Self Growth

---

24. Your Own Evaluation of Overall Self Appraisal

---

---

---

**ACHIEVEMENT INDEX = \_\_\_\_\_ Marks Earned out of 100 %Performance**

The Above Information is correct to the best of my knowledge and belief

**Details of Visiting Faculty:** Visiting faculty appointed to teach non-pharmacy subjects or may be appointed to fulfil the gap of faculty deputed for study / research work. A details of faculty appointed as visiting faculty is given in table.

Institute Marks : 5.00

**Procedure** Director/Principal decides the list of seniors/distinguished faculty, expert from industry for academic development in the Institute.

Table: 33. Details of Visiting Faculty

Class	Semester	Subject	Name of Visiting Faculty	Hours of Interaction
<b>Academic Year 2022-2023</b>				
B. Pharm I year	I	Remedial Mathematics	Dr. Manish Sharma TIEIT	5
B. Pharm II	III	Pharmaceutical Microbiology	Mr. Vipul Patel TIP	5
B. Pharm I year	II	Computer Application	Ms. Shamila Khan TIEIT	5
B.Pharm. IV	VII	T&P session, GDPI	Mr. Ashish Tiwari TIEIT	3
B. Pharm III year	V	Medicinal Chemistry	Dr. Deepti Jain RGPV	2
B. Pharm III year	VI	Medicinal Chemistry	Dr. Nilesh Jain SIRTP	2
B. Pharm I year	II	Pharmaceutical organic chemistry	Dr. Ruchi Jain SIRTP	3
B.Pharm. IV year	VIII	T&P session, GDPI	Dr. Rashmi TIEIT	5
B. Pharm I year	II	Pathophysiology	Ms. Sulakshana Pawar Ravishankar College of Pharmacy	2
B. Pharm II year	IV	Pharmacology	Dr. Prateek Jain Adina Institute of Pharmaceutical sciences	2
B. Pharm I year	II	Computer Application	Mr. Amit Saxena TIEIT	5
B.Pharm. IV year	VIII	T&P session, GDPI	Ms. Nishtha Tiwari TIEIT	5
B. Pharm I year	I	Human Anatomy and Physiology	Dr. Neeraj Upmanyu SAGE University	2
B. Pharm II year	IV	Pharmacognosy & Phytochemistry	Dr. Amit Nayak Phyto Drugs.	2

B. Pharm II year	III	Pharmaceutical Engineering	Dr. Prabhat Jain Scan Labs.	2
<b>Academic Year 2021-2022</b>				
B. Pharm I year	I	Remedial Mathematics	Dr. Manish Sharma TIEIT	5
B. Pharm II year	III	Pharmaceutical Microbiology	Mr. Vipul Patel TIP	5
B. Pharm II year	IV	Biochemistry	Mr. Dheerendra Dubey Kilpest India Limited	5
B. Pharm I year	I	Computer Application	Ms. Shamila Khan TIEIT	3
B.Pharm. IV year	VII	T&P session, GDPI	Ms. Nishtha Tiwari TIEIT	2
B. Pharm III year	V	Medicinal Chemistry	Dr. Azaz Khan PBRI	2
B. Pharm III year	VI	Medicinal Chemistry	Dr. Alok Pal Jain SRK University	3
B. Pharm I year	II	Pharmaceutical organic chemistry	Dr. Ruchi Jain SIRTP	5
B.Pharm. IV year	VIII	Pharmacovigilance	Ms. Sulakshana Pawar Ravishankar College of Pharmacy	2
B. Pharm I year	II	Pathophysiology	Ms. Sulakshana Pawar Ravishankar College of Pharmacy	2
B. Pharm II year	IV	Pharmacology	Dr. Harshita Jain Adina Institute of Pharmaceutical sciences	5
B.Pharm. IV year	VIII	Pharmacovigilance	Dr Nilesh Malviya Smriti Smriti College of Pharmaceutical Studies	5
B. Pharm I year	I	Human Anatomy and Physiology	Dr. Neeraj Upmanyu SAGE University	2
B. Pharm II year	IV	Pharmacognosy & Phytochemistry	Dr. Amit Nayak Phyto Drugs.	2
B. Pharm II year	III	Pharmaceutical Engineering	Dr. Prabhat Jain Scan Labs.	2
<b>Academic Year 2021-2020</b>				

B. Pharm I year	I	Remedial Mathematics	Dr. Manish Sharma TIEIT	10
B. Pharm II year	III	Pharmaceutical Microbiology	Mr. Vipul Patel TIP	10
B. Pharm II year	IV	Biochemistry	Mr. Vipul Patel TIP	5
B. Pharm I year	I	Computer Application	Mr. Puneet Gurbani TIEIT	5
B. Pharm II year	III	Pharmaceutical organic chemistry	Ms. Rashmi Singh TCST	5
B.Pharm. IV year	VII	T&P session, GDPI	Mr. Ashutosh Upadhyay TIEIT	5
B.Pharm. IV year	VIII	Pharmacovigilance	Dr Azaz Khan <u>PBRI</u>	5
B.Pharm. IV year	VIII	Pharmacovigilance	Dr. Amit Nayak Phyto Drugs.	5



## 6 FACILITIES (120)

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

Total Marks 120.00

Total Marks 20.00

The Institute has adequate facilities to conduct lectures and tutorials for B. Pharm program.

Institute Marks : 20.00

All class rooms with good ventilation, LCD, podium and uninterrupted power supply and can accommodate the students. Classrooms are equipped with teaching aids like writing Board, podium, tables, chairs and LCD projector with adequate number.

A state-of-art and well equipped seminar hall with a capacity of 250 is available to conduct seminars, conferences, workshops and guest lectures.

Table 34. Details of Classroom

Room Description	Room No.	Shared/ Exclusive	Capacity	Dimensions with area (SQM)	Rooms/Labs Equipped with
Class room	NS4	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Class room	NS5	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Class room	NS6	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Class room	NT5	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV

Class room	NT6	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Class room	NT7	Exclusive	100	100	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Classroom	F1		60	80	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Classroom	F2		60	80	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV
Classroom	S05		30	45	Sitting desk sheet, podium, Green chalk board, facility for using portable LCD projector, adequate number of fans and lights with good ventilation, curtains and CCTV

Classroom	S14		30	50	<p>Sitting</p> <p>desk sheet, podium, Green chalk board,</p> <p>facility for using portable LCD projector, adequate</p> <p>number of fans</p> <p>and lights with good ventilation, curtains and CCTV</p>
Tutorial room	S10		30	66	<p>Sitting</p> <p>desk sheet, podium, Green chalk board,</p> <p>facility for using portable LCD projector, adequate</p> <p>number of fans</p> <p>and lights with good ventilation, curtains</p>
Seminar Hall	S12	Exclusive	100	100	<p>Sitting</p> <p>arrangement, podium, Green chalk board,</p> <p>facility for using LCD projector, adequate</p> <p>number of fans</p> <p>and lights with good ventilation, curtains and CCTV</p>
Seminar Hall	NT8	Exclusive	250	250	<p>Sitting</p> <p>arrangement, podium, Green chalk board,</p> <p>facility for using LCD projector, adequate</p> <p>number of fans</p> <p>and lights with good ventilation, curtains and CCTV</p>



**6.2 Faculty rooms (10)**

Total Marks 10.00

- Conducive seating arrangement for all faculty members with connected Internet LAN facility and Wi-Fi enabled premises.
- Adequate rooms are available to accommodate faculty members.
- Faculty members have been provided with Internet facility / Wi-Fi facility.

Institute Marks : 10.00

Table 35. Faculty rooms

Room Description	Room No.	Shared/ Exclusive	Dimensions with area (SQM)	Rooms/Labs Equipped with
Faculty Cabin	G04	Exclusive	10	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Director Cabin	G05	Exclusive	36	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Principal Cabin	G06	Exclusive	36	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	G11	Exclusive	10	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	F04	Exclusive	12	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	F10	Exclusive	10	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	F14	Exclusive	10	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	S03	Exclusive	22	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	S04	Exclusive	20	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation
Faculty Cabin	S13	Exclusive	10	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights, Almirah for documentation

Faculty Cabin	NS3	Exclusive	22	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights,  Almirah for documentation
Faculty Cabin	NT1	Exclusive	22	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights,  Almirah for documentation
Faculty Cabin	NT10	Exclusive	22	Adequate number of table and chairs, Computer System, internet facility, adequate number of fan and lights,  Almirah for documentation



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

Total Marks 60.00

Room No.	Laboratory Description in the Curriculum	Area (sqm)	Batch Size	Availability of Lab. Manuals /Entry Register	Safety Measures
G-01	PHARMACEUTICS I	80	25	Yes	Fire Extinguisher First Aid Kit
G02	PHARMACEUTICS II	80	25	Yes	Fire Extinguisher First Aid Kit
G03	PREPARATION ROOM	10	25	Yes	Fire Extinguisher First Aid Kit
G08	CENTRAL INSTRUMENT LAB	80	25	Yes	Fire Extinguisher First Aid Kit
G12	PHARMACY PRACTICE	95	25	Yes	Fire Extinguisher First Aid Kit
G13	CHEMICAL ROOM/ASEPTIC ROOM	18	25	Yes	Fire Extinguisher First Aid Kit
G14	MACHINE ROOM	80	25	Yes	Fire Extinguisher First Aid Kit
F05	PHARMACEUTICAL CHEMISTRY I	80	25	Yes	Fire Extinguisher First Aid Kit
F06	CHEMISTRY -BALANCE ROOM	10	25	Yes	Fire Extinguisher First Aid Kit
F07	PREPARATION ROOM CHEMISTRY	10	25	Yes	Fire Extinguisher First Aid Kit
F08	PHARMACEUTICAL CHEMISTRY II	80	25	Yes	Fire Extinguisher First Aid Kit
F11	PHARMACOGNOSY LAB	80	25	Yes	Fire Extinguisher First Aid Kit
F12	PHARMACOGNOSY PREPARATION ROOM	10	25	Yes	Fire Extinguisher First Aid Kit
F13	PHARMACOLOGY LAB	80	25	Yes	Fire Extinguisher First Aid Kit
F15	ANIMAL HOUSE	50	25	Yes	Fire Extinguisher First Aid Kit
S01	PHARMACEUTICAL ANALYSIS LAB	80	25	Yes	Fire Extinguisher First Aid Kit
S02	D.PHARM PHARMACEUTICS LAB	80	25	Yes	Fire Extinguisher First Aid Kit

S06	PHARMACEUTICS RESEARCH LAB	80	25	Yes	Fire Extinguisher First Aid Kit
S07	PHARMACEUTICS LAB	80	25	Yes	Fire Extinguisher First Aid Kit
S11	PHARMACOLOGY RESEARCH LAB	80	25	Yes	Fire Extinguisher First Aid Kit
S15	PHARMACOLOGY LAB	80	25	Yes	Fire Extinguisher First Aid Kit
NS2	PHARMACEUTICAL CHEMISTRY	110	25	Yes	Fire Extinguisher First Aid Kit
NT2	APHE LAB	80	25	Yes	Fire Extinguisher First Aid Kit
NSI	COMPUTER LAB	80	50	Yes	Fire Extinguisher
F17	LANGUAGE LAB	132	10	Yes	Fire Extinguisher

**a. Well Equipped Laboratories:** The facilities such as gas, water, drainage, fire extinguishers, first aid boxes, exhaust fans, etc., are available in each laboratory. In all laboratories, excellent electrical and plumbing facilities are provided adequately. The number of experiments conducted for each subject in the laboratory as per the PCI and RGPV curriculum. Details of laboratories at Institute are shown in above Table.

**b. Central Instrument Room:** The instrument laboratory equipped with advanced analytical instruments like HPLC, U.V. spectrophotometer, Brookfield viscometer, Disintegration Test Apparatus etc. Students performing experiments as per University syllabus. The list of instruments/equipments in central instrument room is given in table .

Table 36 Detailed list of instrument / equipments in Central Instrument Room

Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Central Instrument Room</b>					
Sonicator	1	1	Yes	HARHSA SALES	Yes
Micro Centrifuge	1	1	Yes	INDIAN SCINTIFIC	Yes
Micropipette single & Multi Channeled	2	2	Yes	SCINCE TECH	Yes
Cell analyzer	1	1	Yes	Scince tech	Yes
Photoelectric colorimeter	1	1	Yes	Jyoti scientific	Yes
Polarimeter	1	1	Yes	Jyoti scientific	Yes
Refractometer	1	1	Yes	Jyoti scientific/ARM	Yes
UV- Visible Spectrophotometer	1	1	Yes	Simanzo/ 125360	Yes
Nephelo Turbidity meter	1	1	Yes	Jyoti scientific /TM	Yes
HPLC	1	1	Yes	Spino tech/ HPLC	Yes
Flame Photometer	1	1	Yes	Jyoti scientific/ FP	Yes
Digital Balance (1mg sensitivity)	1	1	Yes	Jyoti scientific/ WB/Indian scintific	Yes
Conductivity meter	1	1	Yes	Jyoti scientific/ CM	Yes
Biochemistry Analyzer (Desirable)	1	1	Yes	Scince tech/ BCAN01	Yes
Ultra Sonicator	4	4	Yes	KM traders	Yes

UV Cabinet	2	2	Yes	Jyoti scientific	Yes
Moisture balance	1	1	Yes	Jyoti scientific / RYB	Yes
Cooling Centrifuge	1	1	Yes	Remi	Yes
Digital Potentiometer	1	1	Yes	Jyoti/PM	Yes
Brookfield Viscometer	1	1	Yes	Brookfield	Yes
Dissolution Apparatus	1	1	Yes	Electrolab/TDT/08L	Yes

**c. Machine Room:** The machine room equipped with equipments used in formulation and development of various dosage forms viz. tablets, capsule and liquid orals. The major equipment includes Tablet Compression Machine, Capsule filling machine, Bottle filling machine etc. Table indicates the list of equipments available in machine room.

Table 37. Detailed list of instrument / equipments in Machine Room

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Machine Room</b>						
	Ampoule sealing machine	1	1	1	Jyoti scintific/AFM	Yes
	Ampoules washing machine	1	1	1	Jyoti scintific/AWM	Yes
	Double cone blender	1	1	1	Jyoti scientific/ PCB	Yes
	Ointment filling machine	1	1	1	Jyoti scintific	Yes
	Sieve Shaker Machine	1	1	1	Jyoti scientific/ SM10	Yes
	Cutter Mill (Bark and seed grinder)	1	1	Yes	Jyoti scientific	Yes
	Filling Machine	1	1	Yes	Jyoti scientific	Yes

**d. Pharmaceutics Laboratories:** Adequate laboratories are available to conduct the experiments of subjects like Physical Pharmaceutics, Industrial Pharmacy etc. The necessary facilities are provided to smooth conduct of scheduled practicals. The details of equipments and instruments is given in table.

Table 38 : Detailed list of instrument / equipments in Pharmaceutics Laboratories.

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Dept of Pharmaceutics</b>						
	Antibiotic Zone Rader	1	1	1	Km/Treders	Yes
	Aseptic cabinet	1	1	1	Jyoti scintific	Yes
	Autoclave	2	2	2	Jyoti scintific	Yes
	Ball mill	1	1	1	Lab tach scintific	Yes
	BOD Incubator	1	2	2	Jyoti scientific/BI	Yes
	Brookfield viscometer	1	1	1	Lab tach scientific/10m	Yes
	Bulk density	1	2	2	Jyoti scintific	Yes
	Capsule counter	2	2	2	Kasliwal brother	Yes
	Capsule filling machine	1	1	1	Kasliwal brother	Yes
	Centrifuge	2	1	1	Km Traders	Yes

	Clarity test apparatus	1	1	1	Jyoti scientific/ CTA	Yes
	Colony Counter	1	1	1	Jyoti scientific /DCC	Yes
	Desiccators	5	10	10	Kasliwal brother	Yes
	Digital balance	5	5	5	Sir tech/ Indian scintific	Yes
	Digital pH meter	5	5	5	Indian scientific / 851N Jyoti scientific	Yes
	Extractive Distillator	1	1	1	Kasliwal brother/ EDL	Yes
	Franz Diffusion cell	5	5	5	Indian scientific	Yes
	Friability test apparatus	2	2	2	Jyoti scientific	Yes
	Hardness tester	5	5	5	Kasliwal brother	Yes
	Homoginizer	5	10	10	Jyoti scientific/ MP	Yes
	Hot Air Oven	5	2	2	Jyoti scientific/ Indian scientific	Yes
	Hot plate	5	5	5	Jyoti scientific/ HP30M	Yes
	Humidity Chambers	1	1	1	Km Traders/ He01	Yes
	Laminar Air Flow	1	1	1	Jyoti scientific/ LAF03M	Yes
	Magnetic stirrer 500ml & 1 Litr capacity	5	10	10	Jyoti scientific/ Indian scientific	Yes
	Mechanical Stirrer	5	20	20	Jyoti scientific/ Indian scientific/ Remi scientific	Yes
	Microscope	30	10	10	Jyoti scientific/ Indian scientific/ 6239/ 4	Yes
	Milli Pore Filter	1	1	1	Shayam brother	Yes
	Mortar and Pestle	40	40	40	KM traders / Jyoti scientific	Yes
	Refrigerator	2	1	1	Godrej	Yes
	Stage and eye piece micrometers	30	15	15	Kasliwal brother/ KM traders	Yes
	Standard sieves no. 8, 10, 12, 22, 44, 66, 80	1	5	5	Jyoti scintific	Yes
	Steam distillation still	1	1	1	Jyoti scintific	Yes
	Sterility tester	1	1	1	Jyoti scintific	Yes
	Suppository mold	25	25	25	Jyoti scintific	Yes
	Tablet coating machine	1	1	1	Jyoti scintific	Yes
	Tablet Disintegration apparatus	2	2	2	Jyoti scientific/ DT/ BD	Yes
	Tablet Dissolution test apparatus	2	2	2	Jyoti scientific/ DS/ DS	Yes
	Tablet punching machine	1	2	2	M.F.G.Work/ TP	Yes
	Tincture press	2	1	1	Kasliwal brother	Yes
	Tray dryer	1	1	1	KM traders	Yes
	Vacuum Distillator	2	2	2	Jyoti scientific/	Yes

	Vacuum pump	3	3	3	Jyoti scientific/	Yes
	Water bath	5	5	5	Kasliwal brother	Yes

e. **Pharm. Chemistry Laboratories:** Adequate laboratories are available to conduct the experiments of subjects like Organic Chemistry, Inorganic Chemistry, Medicinal Chemistry, Bio-chemistry etc. The necessary facilities are provided to smooth conduct of scheduled practicals. The details of equipments and instruments are given in table.

**Table 39: Detailed list of instrument / equipments in Pharm. Chemistry Laboratories.**

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Dept of Pharmaceutical Chemistry</b>						
	Analytical Balances for demonstration	5	5	5	Kasliwal brother/ AB	Yes
	Arsenic Limit Test Apparatus	20	30	30	Kasliwal brother/ 10M	Yes
	Atomic Absorption and Emission spectrophotometer (Desirable)	1	0	0	Indian scientific/ KM traders	Yes
	Atomic model set	2	2	2	KM traders	Yes
	Carbon, Hydrogen, Nitrogen Analyzer (Desirable)	1	1	1	KM traders	Yes
	Colorimeter	1	1	1	Jyoti scientific/ C03M	Yes
	Copper water bath	25	25	25	Kasliwal brother/KM traders	Yes
	Deep Freezer (Desirable)	1	0	0	Scince tech/ DF01	Yes
	Digital balance 10mg sensitivity	5	5	5	Sir tech/ Indian scintific	Yes
	Digital pH meter	5	5	5	Jyoti scientific/ Indian scientific/ DPM	Yes
	Distillation Unit	2	2	2	Jyoti scientific/ Kasliwal brother/ B4	Yes
	Electronic balance	2	2	2	Sir tech/ Indian scintific	Yes
	Electronic water bath( 12 holes)	5	5	5	Indian scientific/ Jyoti scientific	Yes
	Flourimeter	1	1	1	Jyoti scientific/ FM011	Yes
	Hot plates	8	5	5	Jyoti scientific/HP	Yes
	HPTLC (Desirable)	1	0	0	KM traders	Yes
	Ion- Exchanger	1	1	1	Kasliwal brother	Yes
	Lyophilizer (Desirable)	1	0	0	Jyoti scientific /Indian scientific	Yes
	Magnetic Stirrers with Thermostat	10	10	10	Jyoti scientific /Indian scientific	Yes

Mechanical Stirrers	5	5	5	Jyoti scientific /Indian scientific	Yes
Microwave Oven	2	2	1	Jyoti scientific /PM	Yes
Muffle Furnace	2	1	1	Jyoti scientific /Indian scientific	Yes
Nesslers Cylinders	50	50	50	KM traders	Yes
Oven	5	2	2	Jyoti scientific /Indian scientific/ I03N	Yes
Periodic table chart	Adequate	10	10	Shayam brothers	Yes
Potentiometer	1	1	1	Jyoti scientific /PM	Yes
Reflux flask and condenser double / triple necked	20	20	20	KM traders	Yes
Reflux flask and condenser single Necked	25	25	25	KM traders	Yes
Refrigerator	2	1	1	Samsung	Yes
Suction pumps	5	5	5	KM traders	Yes
Vacuum Pump	2	2	2	Jyoti scientific	Yes

**f. Pharmacognosy Laboratory:** Laboratory is available to conduct the experiments of subjects like Pharmacognosy and Phytochemistry, Herbal drug technology, Pharmacognosy etc. Adequate number of crude drugs and charts are available in each laboratory. The necessary facilities are provided to smooth conduct of scheduled practicals. Table indicates the detailed list of equipments and instruments in Pharmacognosy laboratory.

Table 40: Detailed list of instrument / equipments in Pharmacognosy Laboratories.

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Dept of Pharmacognosy</b>						
	Autoclave	2	2	2	Harsha sales	Yes
	Binocular Microscope	1	1	1	Harsha sales	Yes
	Camera lucida	20	20	20	Harsha sales	Yes
	Colorimeter	1	1	1	Harsha sales	Yes
	Compound Microscope	30	20	20	Harsha sales/ Indian scintific	Yes
	Digital pH Meter	1	1	1	Jyoti scientific	Yes
	Dissecting Microscope	30	30	30	Harsha sales	Yes
	Electric water bath	4	4	4	Indian scintific	Yes
	Electronic Digital balance	2	2	2	Sirtech & Indian Scintific	Yes
	Electrophoresis	1	1	1	Harsha Sales	Yes
	Eye piece micrometer	20	20	20	Harsha Sale & Indian Scintific	Yes
	Fermentor	1	1	1	K.M Treders	Yes
	Heating Mantles-Small	4	4	4	K.M Treders	Yes
	Hot air oven	2	2	2	Jyoti Scintific	Yes

Hot plate	4	4	4	Jyoti Scintific	Yes
Medicinal Plant Chart	Adequate	10	10	Advance Scintific	Yes
Microtome rotary	1	1	1	Jyoti Scintific	Yes
Mixer grinder	2	2	2	Bajaj	Yes
Models	Adequate	10	10	Advance Scintific	Yes
Moisture balance	1	1	1	Harsha Sales	Yes
Muffle furnace	1	1	1	Indian Scintific	Yes
Permanent Slide	Adequate	10	10	Advance Scintific	Yes
Polarized Microscope	1	1	1	Harsha Sales	Yes
Projection Microscope	2	1	1	Jyoti Scintific	Yes
Refrigerator	1	1	1	Samsung	Yes
Rotary Shaker	1	1	1	Harsha Sales	Yes
Stage micrometer	20	20	20	K.M. Treders	Yes
Sterility testing unit	1	1	1	Jyoti Scintific	Yes
UV Cabinet	2	2	2	Harsha Sales	Yes
Vacuum pump	2	2	2	Jyoti Scintific	Yes
Water Distillation unit	1	1	1	Jyoti Scintific	Yes
Zone reader	1	1	1	Jyoti Scintific	Yes

**g. Pharmacology Laboratories:** Adequate laboratories are available to conduct the experiments of subjects like Human Anatomy and Physiology, Pharmacology, Pathophysiology etc. The necessary models, permanent slides, and charts available in each laboratory. The necessary facilities are provided to smooth conduct of scheduled practicals.

Table 41 indicates the detailed list of equipments and instruments in Pharmacology laboratories.

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
<b>Dept of Pharmacology</b>						
	Actophotometer	1	1	1	Harsha sales/A1035	Yes
	Aerators	10	10	10	Harsha sales	Yes
	Analgesiometer (eddys hot plate and radiant heat methods)	1	1	1	Harsha sales/AM	Yes
	Centrifuge	1	1	1	Jyoti scientific /Indian scientific/EC	Yes
	Convulsometer	1	1	1	Harsha sales	Yes
	Different Contraceptive Devices and Models	1	1	1	Anurag medical store	Yes
	Digital glucometer	1	1	1	Anurag medical store/ Indian scientific	Yes
	Digital pH meter	1	1	1	Harsha sales	Yes

Dissection tray & boards	10	10	10	Harsha sales	Yes
Folin- wu tubes	60	60	60	KM traders	Yes
Haemocytometer with Micropipettes	20	20	20	Harsha sales	Yes
Hemostatic artery forceps	10	10	10	KM traders	Yes
Histamine chamber	1	1	1	Harsha sales/ SC	Yes
Hutchinsons spirometer	1	1	1	Harsha sales	Yes
Hypodermic syringes & needles Size 15,24,26G	20	20	20	Anurag medical store	Yes
Levers , cannula	20	20	20	Harsha sales	Yes
Lucas moist chamber	1	1	1	Jyoti scientific	Yes
Mercury thermometer	10	10	10	Harsha sales	Yes
Metabolic cage	1	1	1	Dolfin tradres	Yes
Microscopes	20	20	20	Jyoti scientific /Indian scientific	Yes
Models for various organs	1	1	1	Harsha sales	Yes
Muscle electrodes	1	1	1	Harsha sales	Yes
Myographic lever	1	1	1	Harsha sales	Yes
Permanent Slides for various tissues	1	1	1	KM traders	Yes
Perspex bath assembly (single unit)	10	10	10	Harsha sales	Yes
Plethysmograph	1	1	1	Harsha sales	Yes
Pole climbing apparatus	1	1	1	Jyoti scientific	Yes
Pregnancy diagnosis kit	1	1	1	Anurag medical store	Yes
Rotarod	1	1	1	Harsha sales	Yes
Sahlis haemocytometer	20	20	20	Kasliwal brother/ Harsha sales	Yes
Sherrington drum	10	10	10	Harsha sales	Yes
Sherringtons kymograph machine / polyrite	10	10	10	Harsha sales/ Jyoti scientific	Yes
Skeleton and bones	1	1	1	KM traders	Yes
Software packages for experiment	1	1	1	-	Yes
Specimen for various organs and systems	1	1	1	Harsha sales	Yes
Spygmomanometer	10	10	10	Harsha sales/ Indian scintific	Yes
Standard graph of various drug	Adequate	10	10		Yes
Stereotaxic apparatus	1	1	1	Harsha sales	Yes
Stethoscope	10	10	10	Harsha sales/ Indian scintific	Yes

Stimulator	1	1	1	Jyoti scientific	Yes
------------	---	---	---	------------------	-----

**h. Pharmay Practice Laboratories:**

Laboratory is available to conduct the experiments of Pharmacy practice subject. The necessary facilities are provided to smooth conduct of scheduled practicals.

Table 42 indicates the detailed list of equipments and instruments in Pharmacy practice laboratory.

S.No	Name of the Equipment	Minimum required	Available	Working	Make & Model	SOPs
	Autoclave sterilizer	1	1	1	Jyoti Scintific	Yes
	Blood Pressure Apparatus and stethoscope	10	10	10	Indian Scintific	Yes
	Centrifuge	1	1	1	Jyoti Scintific	Yes
	Clinical thermometer	10	10	10	Jyoti Scintific	Yes
	Glucometer	1	1	1	Anurag Medical	Yes
	Hot air oven	1	1	1	Jyoti Scintific	Yes
	Membrane filter	1	1	1	Advance Scintific	Yes
	pH meter	1	1	1	Indian Scintific	Yes
	Sintered glass funnel with complete filtering assemble	Adequate	10	10	Harsha Sales	Yes
	Small disposable membrane filter for IV admixture filtration	Adequate	10	10	Harsha Sales	Yes
	Surgical dressing	Adequate	10	10	K.M. Treders	Yes
	Vacuum pump	1	1	1	Jyoti Scintific	Yes



Lab Description	Batch Size	Availability of manuals	Quality of Instrument	Safety Measures	Remarks
PHARMACEUTICAL CHEMISTRY II	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACOGNOSY LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACOLOGY LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICAL ANALYSIS LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
D.PHARM PHARMACEUTICS LAB	30	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICS RESEARCH LAB	15	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICS LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACOLOGY RESEARCH LAB	15	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACOLOGY LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICAL CHEMISTRY	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
APHE LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
COMPUTER LAB	50	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
LANGUAGE LAB	10	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICS I	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICS II	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
CENTRAL INSTRUMENT LAB	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACY PRACTICE	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working

MACHINE ROOM	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working
PHARMACEUTICAL CHEMISTRY I	25	Yes	Good	Fire Extinguisher First Aid Kit	Present and Working

6.4 Drug Museum (5)

Total Marks 5.00

The Drug museum consists of the show-casing of pharmaceutical market products arranged by the students.

Institute Marks : 5.00

It having several marketed solid dosage forms (tablets and capsules), different types of packing i.e. strip / blister, granules, marketed products, injectable formulations, infusion bottles, liquid preparations for humans, aerosols, cosmetic preparations, natural crude extracts and semisolid ointments.

The museum is designed with special care to create an immersive experience for visitors. Located in the entrance gate, ground floor, first floor and second floor it faces the entrance gate and provides a stunning view of the displayed products. With its carefully curated displays, the museum offers an opportunity to explore and appreciate the beauty of these products. It also serves as a reminder of how these products have shaped our lives and culture.

The museum is designed with special care to highlight the displayed products and is located in the ground floor, facing to the entrance gate, which becomes visible to everyone while entering. The museum is designed to provide separate sections for various categories of products.

S.No.	Category	Category	Name of drugs
1.	<b>Dosage Forms</b>	Solid Dosage form	Tablet, Capsule, Pills, Power, Lozenge
		Liquid Dosage forms,	Syrups, Suspension, Emulsion, Liniments, Mouth washes Lotions, Drops
		Semisolid dosage forms	Paste, Cream, Gel, Ointment, Suppository
		PARENTERAL dosage forms	Vaccine, Injection, Normal saline
		Gaseous Dosage forms	Aerosol, Spray
2.	<b>Over the counter drugs (OTC) &amp; Detection kits</b>	<b>OTC Medicine: Aspirin</b>	
		Dextromethorphan ( <a href="https://www.emedicinehealth.com/drug-dextromethorphan/article_em.htm">https://www.emedicinehealth.com/drug-dextromethorphan/article_em.htm</a> ), Guaifenesin ( <a href="https://www.emedicinehealth.com/drug-guaifenesin_oral/article_em.htm">https://www.emedicinehealth.com/drug-guaifenesin_oral/article_em.htm</a> )	
		phenylephrine ( <a href="https://www.emedicinehealth.com/drug-phenylephrine/article_em.htm">https://www.emedicinehealth.com/drug-phenylephrine/article_em.htm</a> ), glycerin ( <a href="https://www.emedicinehealth.com/drug-glycerin_rectal/article_em.htm">https://www.emedicinehealth.com/drug-glycerin_rectal/article_em.htm</a> )	
		ibuprofen , Diphenhydramine ( <a href="https://www.emedicinehealth.com/drug-diphenhydramine/article_em.htm">https://www.emedicinehealth.com/drug-diphenhydramine/article_em.htm</a> )	
		Bismuth subsalicylate ( <a href="https://www.emedicinehealth.com/drug-bismuth_subsalicylate/article_em.htm">https://www.emedicinehealth.com/drug-bismuth_subsalicylate/article_em.htm</a> ), Aluminum hydroxide ( <a href="https://www.emedicinehealth.com/drug-aluminum_hydroxide/article_em.htm">https://www.emedicinehealth.com/drug-aluminum_hydroxide/article_em.htm</a> )	
		Docusate ( <a href="https://www.emedicinehealth.com/drug-docusate/article_em.htm">https://www.emedicinehealth.com/drug-docusate/article_em.htm</a> ), Bisacodyl ( <a href="https://www.emedicinehealth.com/drug-bisacodyl/article_em.htm">https://www.emedicinehealth.com/drug-bisacodyl/article_em.htm</a> ), Loperamide ( <a href="https://www.emedicinehealth.com/drug-loperamide_oral/article_em.htm">https://www.emedicinehealth.com/drug-loperamide_oral/article_em.htm</a> ), Cetirizine, Paracetamol	
		<b>Detection kits:</b>	
		Glucometer	
		Oxymeter	
		Thermometer	
		BP Monitor	

3.	<b>Homeopathic and Ayurvedic Formulations</b>	<p>Liv.52</p> <p>Arsenicum Album 30</p> <p>Ashwagandha powder</p> <p>Divya Arjuna Powder</p> <p>Divya safed moosli powder</p> <p>Alfalfa tonic (SBL Indus)</p> <p>Kali muriaticum (Indo Germanis)</p> <p>Natrum Muriaticur (SBL Indus)</p> <p>Homeopathic dill (Baksons)</p> <p>Silica 6n (SBL Indus)</p> <p>Barberis nulgaris (SBL Indus)</p>
4.	<b>Glasswares</b>	<p>Condenser</p> <p>Burette</p> <p>Stalognometer</p> <p>Funnel</p> <p>Buckner funnel</p> <p>Glass ampoule</p> <p>Gooch crucible</p> <p>Dry pistol</p> <p>Soxhlet assembly</p> <p>Morter and pestle</p> <p>Libig condenser</p> <p>Diffusion cell</p> <p>Gravity bottle</p> <p>Bulb condense</p> <p>Iodine Flask</p>
5.	<b>Cosmetics</b>	<p>Lipstic</p> <p>Powder</p> <p>Cream</p> <p>Nail polish</p> <p>Lotion</p> <p>Perfume</p> <p>Gel</p> <p>Shampoo</p> <p>Soap</p> <p>Dyes paste</p>

		Agar, Ginger powder, Shatavari root, Cassia Aloe dry juice, Glycrrhiza, Silk, Chirata, Ashwagandha, Guggul Squill, Clove buds, Badi Pipali, Harda, Tragacanth, Digitalis leaves, Behra, Indian gum, Wool Ginger, dry Benzoin, Isabgol, seed, Acacia, Cinchona, Kurchi bark, Capsicum fruit, Aconite Kutki Caraway, Jute, Ajwoin, Liquorice, Cinchona, Kalmegh, Amla, Nutmeg,
6.	<b>Crude drug</b>	
7.	<b>Parenteral Dosage forms</b>	DNS 500 mL Inj. Mannitol Injection Dexamethasone Vasicon Offlaxacin D5 500 mL Inj. Hydrocartisone Ketlur Gentamycin Ringer-Lactate solution 500 mL Inj. Ceftriaxone Lobra D Albucid
8.	<b>Surgical instruments and First aid kit</b>	Surgical Globes Masks (Sugical, N95 etc), Hair cap, Oxygen cylinder (small), Heating Pad Bandage Syringes Needle Surgiesl cotton and gouses Adhesive tapes
9.	<b>Ophthalmic formulations</b>	Eye drops, eye ointment
10	<b>Ball and Stick Atomic Models of organic compound</b>	Paracetamol Ethanol Methanol Urea Water, Baclofen Acetyl Salicylic Acid Diethyl Ether Amino Acid Ethanol
11	<b>Toilet Preparations (Alcohol containing and others)</b>	Odonil Handwash, Sanitizer

12.	<b>Crude Drugs</b>	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 Gokharu, Turmeric rhizome, Solanum Isabgol husk ,Ipecac, Vasaca
13	<b>Solid Dosage Froms</b>	Blisters of different shapes and sizes, Capsules (soft gelatin and Hard gelatin capsules)



6.5 Medicinal Plant Garden (5)

Total Marks 5.00

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

(5)

- **Area:** The area of the medicinal plant garden is approx.3000sq.feet in which various medicinal plants are maintained. (In addition to this, various medicinal plants planted in campus area)
- **Demarcation:** Adjacent to Institute building
- **Arrangement:** Permanent
- **Adequacy of the plants:** Adequate
- **Types, varieties and number of plants available in the garden:** Detailed information on medicinal plants available in medicinal plant garden is illustrated in table given below.

Table 43 Details of Medicinal plants in Medicinal Garden in Truba Institute of Pharmacy Bhopal

S.N.	Common Name of Plant	Botanical Name	Family	Use
1	Adusa	<i>Adhatoda vasica</i>	Acanthaceae	Bronchites
2	Aloe	<i>Aloe vera</i>	Liliaceae	Laxative
3	Rose	<i>Rosa Species</i>	Rosaceae	Perfume
4	Chitrak	<i>Plumbago zeylanica</i>	Plumbaginaceae	Antipyretic
5	Shatavari	<i>Asparagus recemosus</i>	Liliaceae	Galoctogogue and Tonic
6	Insulin Plant	<i>Costus igneus</i>	Costaceae	Anti-Diabetic
7	Vajradanti	<i>Baleria prionitis</i>	Acanthaceae	Dental care
8	Sarpagandha	<i>Rawoulfia serpentina</i>	Apocynaceae	Anti-hypertensive
9	Kalmegh	<i>Andrographis paniculata</i>	Acanthaceae	Liver tonic
10	Lasuda	<i>Cordia dichotoma</i>	Boraginaceae	Hepatitis
11	Jangli Bhindi	<i>Abelmoschus moschatus</i>	Malvaceae	Diuretic
12	Guggul	<i>Commiphora weigeltii</i>	Burseraceae	Herbal tonic
13	Harfarauri	<i>Phyllanthus acidus</i>	Euphorbiaceae	Cathartic
14	Ashok	<i>Saraca indica</i>	Leguminosae	Uterine tonic
15	Gudmar	<i>Gymnema sylvestre</i>	Asclepiadaceae	Hypoglycemic
16	Tulsi	<i>Ocimum sanctum</i>	Labiateae	Antibacterial
17	Hirda	<i>Treminalia chebula</i>	Combretaceae	Laxative
18	Lajvanti	<i>Mimosa pudica</i>	Mimosoideae	Bitter tonic
19	Amala	<i>Emlica officinalis</i>	Euphorbiaceae	Laxative and Antioxidant
20	Anar	<i>Punica granatum</i>	Punicaceae	Tonic
21	Silver oak	<i>Grevillea robusta</i>	Proteaceae	Cyanogenic

22	Almond	<i>Prunus amygdalus</i>	Rosaceae	Anemia
23	Jamun	<i>Eugenia jambolana</i>	Myrtaceae	Anti-Diabetic
24	Choti Elaichi	<i>Elettaria cardamomum</i>	Zingiberaceae	Carminative
25	Ashwagandha	<i>Withania somnifera</i>	Solanaceae	Sedative and anti-rheumatic
26	Anjan	<i>Hardwickia binata</i>	Caesalpiniaceae	Antimicrobial
27	Datura	<i>Datura metel</i>	Solanaceae	Anticholinergic
28	Bael	<i>Aegle marmelos</i>	Rutaceae	Digestive
29	Putranjiva	<i>Putranjiva roxburghii</i>	Putranjivaceae	Dysmenorrhea
30	Sadabahar	<i>Vinca rosea</i>	Apocynaceae	Anticancer
31	Castor	<i>Ricinus communis</i>	Euphorbiaceae	Laxative
32	Banana	<i>Musa acuminata</i>	Musaceae	Constipation
33	Badi Elaichi	<i>Amomum sublatum</i>	Zingiberaceae	Carminative
34	Gudhal	<i>Hibiscus sinensis</i>	Malvaceae	Diuretic
35	Sitafal	<i>Annona squamosa</i>	Annonaceae	Antidiarrheal
36	Lemon	<i>Citrus limon</i>	Rutaceae	Vitamin C supplement
37	Neem	<i>Azadirachta indica</i>	Meliaceae	Anti-bacterial
38	Babul	<i>Acacia arabica</i>	Leguminosae	Pharmaceutical aid
39	Mahua	<i>Madhuca longifolia</i>	Sapotaceae	Anti-leprotic
40	Kali musli	<i>Curculigo orchioides</i>	Amaryllidaceae	Aphrodisiac
41	Mango	<i>Mangifera indica</i>	Anacardiaceae	Digestive
42	Mogra	<i>Jasminum sambac</i>	Oleaceae	Perfumery
43	Chameli	<i>Jasminum grandiflorum</i>	Oleaceae	Anti-depressant
44	Ashawagandha	<i>Withania somnifera</i>	Solanaceae	Immunomodulator
45	Cotton	<i>Gossypium herbaceum</i>	Malvaceae	Pharmaceutical fibre

46	Sinduri	<i>Bixa orellana</i>	Bixaceae	Colourant
47	Shahut	<i>Morus alba</i>	Moraceae	Anti-bacterial
48	Lemongrass	<i>Cymbopogon citratus</i>	Poaceae	Perfumery
49	Orange	<i>Citrus aurantium</i>	Rutaceae	Vc supplement
50	Kaner	<i>Thevetia nerifolia</i>	Apocynaceae	Emetic
51	Guava	<i>Psidium guajava</i>	Myrtaceae	Anti-diarrheal
52	Ratanjot	<i>Jatropha curcas</i>	Boraginaceae	Biofuel
53	Ajwon	<i>Trachyspermum ammi</i>	Apiaceae	Carminative
54	Giloy	<i>Tinospora cordifolia</i>	Menispermaceae	Immunomodulator
55	Harsingar	<i>Nyctanthes arbor</i>	Oleaceae	Sciatica

And Many More.....



#### Overall look and maintenance of the medicinal plant garden

The medicinal plant garden is well maintained regularly watered and fertilizers are used as per the need at suitable intervals. Periodically weeding and thinning done. All the varieties of plants are labelled.

#### 6.6 Non Teaching Support (20)

Total Marks 20.00

Name of the Technical Staff	Designation	Date Of Joining	Qualification		Other Technical Skill Gained	Responsibility
			AT joining	Now		
Mukesh Pawar	Lab Assistant	27/1/2016	B. Sc. & M. Sc.	B. Sc. & M. Sc.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Nimisha Saraf	Office Asstt.	23/08/2021	M. Sc. & BCA	M. Sc. & BCA	Nil	Overseeing clerical tasks, such as sorting and sending mail.
Arjun Singh	Poem	01/08/2004	12th	12th	NIL	The duty of the peon is to hand over the files, letters, etc., to the concerned officers/ sections, hand over the different letters to the dispatch section, collection of store material and other official works as assigned
Manoj	Poem	01/07/2010	12th	12th	NIL	The duty of the peon is to hand over the files, letters, etc., to the concerned officers/ sections, hand over the different letters to the dispatch section, collection of store material and other official works as assigned
Mukesh	Poem	01/03/2023	12th	12th	NIL	The duty of the peon is to hand over the files, letters, etc., to the concerned officers/ sections, hand over the different letters to the dispatch section, collection of store material and other official works as assigned
Neelesh Vishwakarma	Library Attendant	23/08/2021	B. Com.	B. Com.	Nil	Assisting in Library related work
Ramesh Rai	Lab Assistant	1/1/2017	BA	BA	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Satyendra Malviya	Lab Assistant	1/9/2021	B. Sc.	B. Sc.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Mukhvedra Singh Yadav	Lab Assistant	1/1/2017	B.Sc.	B.Sc.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Ajay Kumar Dwivedi	Lab Assistant	2/1/2019	B.Sc.	B.Sc.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Dipali Saxena	Lab Assistant	1/10/2021	B.Sc.	B.Sc.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Rajesh Ahirwar	Office Asstt.	01/03/2023	B.Tech	B.Tech	Nil	Overseeing clerical tasks, such as sorting and sending mail
Ajay Singh Chouhan	Registrar	03/04/2007	M.A. & MBA	M.A. & MBA	Nil	Administer all the academic activities of the organization
Madhur Sharma	TPO	15/04/2008	B. Com. & MBA	B. Com. & MBA	Nil	Identify training and development needs within an organisation through job analysis.
Narendra Patel	Accountant	1/11/2013	B. Com & M. Com.	B. Com & M. Com.	Nil	Accounting ,Salary related work, TDS & Fee Collection work
Bhojram Chourey	Deputy Registrar	14/09/2006	B. Com. & MBA	B.Com. & MBA	Nil	Maintain all academic and administrative records, Issue Certificate and Marksheets & Conducting counselling
Sunita Malviya	Librarian	29/09/2010	M. Com & B. Lib.	M. Lib	Nil	To work in accordance with the objectives of the College Library.

Anil Singh	Lab Assistant	15/09/2011	D. Pharma.	D. Pharma.	Nil	Laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
------------	---------------	------------	------------	------------	-----	-----------------------------------------------------------------------------------------------------------------

**6.6.1 Availability of adequate and qualified technical supporting staff for program specific laboratories (10)**

Institute Marks : 10.00

The Institute has sufficient technical staff as per pharmacy council of India norms. Information of non-teaching staff is given in table below

Table 44 Information of non-teaching staff

Name of the Technical Staff	Designation	Date of Joining	Qualification		Other Technical Skill Gained	Responsibility
			AT Joining	Now		
Ajay Singh Chouhan	Registrar	3/4/2007	M.A. & MBA	NIL	NIL	Administer all the academic activities of the organization
Madhur Sharma	TPO	15/04/2008	B. Com. & MBA	NIL	NIL	Identify training and development needs within an organisation through job analysis.
Narendra Patel	Accountant	1/11/2013	B. Com & M. Com.	NIL	NIL	Accounting ,Salary related work, TDS & Fee Collection work
Bhojram Choureya	Deputy Registrar	14/09/2006	B. Com. & MBA	NIL	NIL	Maintain all academic and administrative records, Issue Certificate and Marksheets & Conducting counselling
Sunita Malviya	Librarian	29/09/2010	M. Com & B. Lib.	NIL	NIL	To work in accordance with the objectives of the College Library.
Anil Singh	Lab Assistant	15/09/2011	D. Pharma.	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Mukesh Pawar	Lab Assistant	27/1/2016	B. Sc. & M. Sc.	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Nimisha Saraf	Office Asstt.	23/08/2021	M. Sc. & BCA	NIL	NIL	Overseeing clerical tasks, such as sorting and sending mail.
Neelesh Vishwakarma	Library Attendant	23/08/2021	B. Com.	NIL	NIL	Assist in Opening and Closing of the Library
Satendra Malviya	Lab Assistant	1/9/2021	B. Sc.	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations

Ramesh Rai	Lab Assistant	1/1/2017	BA	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Mukhvedra Singh Yadav	Lab Assistant	1/1/2017	B.Sc.	NIL	NIL	Laboratory assistant preparing instruction and materials used during laboratory experiments and demonstration
Ajay Kumar Dwivedi	Lab Assistant	2/1/2019	B.Sc.	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Dipali Saxena	Lab Assistant	1/10/2021	B.Sc.	NIL	NIL	laboratory assistant preparing instructions and materials used during laboratory experiments and demonstrations
Rajesh Ahirwar	Office Asstt	01/03/2023	B.Tech	NIL	NIL	Overseeing clerical tasks, such as sorting and sending mail.

Table 45 Details of Supporting staff

S.no	Name	Joining Date	Qualification	Responsibility
1.	Mr Vijay Yadav	01/04/2004	BA	Caretaker
2.	Mr Arjun Singh	01/07/2004	12 <sup>th</sup>	Class IV employee
3.	Mr Manoj Vishwakarma	03/07/2010	12 <sup>th</sup>	Class IV employee
4.	Mr Mukesh	01/03/2023	12 <sup>th</sup>	Class IV employee
5.	Mr Khelan	06/10/2006	10 <sup>th</sup>	Gardner
6.	Mr Santosh	07/12/2015	BA	Housekeeping Supervisor
7.	Mr Ajeem Khan	10/11/2004	12th	Electrician
8.	Mr Sattar Khan	01/07/2004	12 <sup>th</sup>	Maintenance staff
9.	Mr Irfan Khan	01/07/2005	12 <sup>th</sup>	Maintenance Staff
10.	Mr Gayaprasad	01/05/2004	12 <sup>th</sup>	Caretaker

For skill upgradation and professional advancement of the Non- teaching staff, the college conducted workshop, demonstrations and training sessions as given in table.

Table 46 Details of Training program conducted for non-teaching staff

S.no.	Date	Title	Staff Name
1.	23/12/2020	Fire Extinguisher and Safety	Mr.Bhojram Chourey Mr. Anil Singh Mr. Mukesh Pawar Mr. Arjun Singh
2.	23/12/2020	Laboratory Safety Measures	Mr. Anil Singh Mr. Mukhvedra Singh Yadav Mr. Ramesh Rai
3.	09/12/2021	Laboratory Safety Measures	Mr. Anil Singh Mr. Mukesh Pawar Mr. Mukhvedra Singh Yadav Mr. Ramesh Rai
4.	09/12/2021	Fire Extinguisher and Safety	Mr.Bhojram Chourey Ms.Nimisha Sarf Mr. Anil Singh Mr. Arjun Singh
5.	15/01/2023	Fire Extinguisher and Safety	Mr.Bhojram Chourey Ms. Nimisha Saraf Mr. Anil Singh Mr. Arjun Singh
6.	30.12.2022	Laboratory Safety Measures	Mr. Anil Singh Mr. Mukhvedra Singh Yadav Mr. Ramesh Rai
7.	30.12.2022	Laboratory Reagent Preparation, Handling and Safety Measures	Mr. Mukesh Pawar Mr. Ajay Kumar Dwivedi Ms. Dipali Saxena



## 7 CONTINUOUS IMPROVEMENT (75)

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

Total Marks 72.08

Total Marks 15.00

Items	2018-19 (LYG)	2017-18 (LYGm1)	2016-17 (LYGm2)
Success Index (from 4.2.1)	0.16	0.40	0.47

**7.2 Improvement in Placement and Higher Studies (15)**

Total Marks 15.00

Institute Marks : 15.00

Items	2018-19 (LYG)	2017-18 (LYGm1)	2016-17 (LYGm2)
Placement Index (from 4.7)	1.00	1.00	1.00

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

Total Marks 7.08

Institute Marks : 7.08

Academic Performance	2018-19 (LYG)	2017-18 (LYGm1)	2016-17 (LYGm2)
Mean of CGPA or mean percentage of all successful students(X)	7.51	7.04	6.83
Total number of successful students(Y)	79.00	50.00	50.00
Total number of students appeared in the examination(Z)	79.00	51.00	50.00
API [ X*(Y/Z) ]:	7.51	6.90	6.83

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.08

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.08

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

Total Marks 15.00

Item		2021-22(CAYm1)	2020-21(CAYm2)	2019-20 (CAYm3)
National Level Entrance Examination  NA	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others  Others (On basis of XII merit through centralized DTE counselling by M.P Govt)	No of students admitted	115	107	100
	Opening Score/Rank	13	44	75
	Closing Score/Rank	15279	5085	5601
Name of the Entrance Examination for Lateral Entry or lateral entry details  On basis of D.Pharm Exam	No of students admitted	3	1	0
	Opening Score/Rank	49	77	0
	Closing Score/Rank	76	77	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		64.04	64.73	68.47

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

Total Marks 20.00

POs	Target Level	Attainment Level	Observations
<b>PO 1 : Pharmacy Knowledge</b>			
PO 1	2.5	2.75	<p>Target level is fulfilled, The attainment level suggested to still improve the knowledge more effectively. After getting feedback on same, measures were taken to overcome any possible hurdle in future.</p> <p>1.Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.          2.Tough topics were taught in peer groups of students.          3.Recent professional developments were been addressed through expert talks and conduction of value addition courses.</p>
<b>PO 2 : Planning abilities</b>			
PO 2	2.5	2.04	<p>Attainment level is low in comparison to target level, During the short span of the semester it was been observed that the functioning of the labs and classes not to speed up the syllabus coverage, new areas of problem or any extension of the existing problems</p> <p>1. Target partly achieved via regular visit to the Library and more towards refereeing the journals was been made mandatory for the students.          2.Inclusion of the latest research trends was also incorporated academic planning and incorporate practical demonstration to make them aware towards identifying problems.          3.The students were motivated to participate in various kind of Inter institutional, National level competition for betterment of understanding.</p>
<b>PO 3 : Problem Analysis</b>			
PO 3	2.5	2.10	<p>Attainment level is low in comparison to target level. As the term of the semester was doesn't allow to do more experimentation and planning exercise. will try to overcome this with extra hr practical classes.</p> <p>Target will be retained and will be observed for next academic year.          1. We design few committee's among students for various activities for problem analysis.          2.They were involved in organizing and conduction of various co-curricular and extra-curricular activities in the institute          3.Guest lecture will also plan on Planning attributes and time and resource management.</p>
<b>PO 4 : Modern tool usage</b>			
PO 4	2.5	2.28	<p>Attainment level is moderate. The need of the hour is the latest technological advancements and developments in the area of the pharmacy profession. A sincere effort in this regard is required to take up.</p> <p>1.Students motivated to refer to the research articles of the current journals to make them aware about the innovations in the field and modernization of technology.          2.They were motivated to participate in various quizzed, seminars, workshops of national, state level to raise the awareness and information on the new technology.          3.Students were encouraged to learn from MOOCS and Knowledge available on Web. and on other social media platforms.</p>
<b>PO 5 : Leadership skills</b>			
PO 5	2.5	2.10	<p>Attainment level is ok in comparison to target level. Students actively participate in various activities and show exemplary leadership skills.</p> <p>Target will be retained and will be observed for next academic year.          1. Appreciation of students in various programs to be done in coming years.          2. Giving tasks and Opportunities for developing and displaying leadership skills to them for better performance.</p>

**PO 6 : Professional identity**

PO 6	2.5	2.16	Attainment level is quite good in comparison to target level. It has been observed that identity of students of pharmacy profession in comparison to other technical and medical students is established. The Overall Moral of the students is required to be sustain.
------	-----	------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Target will be retained and will be observed for next academic year.

1. Students were addressed aggressively by the teaching fraternity about the scope and importance of their profession.
2. Various lecture series of eminent professionals was also conducted.
3. Industrial exposure was also been made to raise their confidence in profession and inculcate a pride feel for same.

**PO 7 : Pharmaceutical Ethics**

PO 7	2.5	2.20	Today's Need is a Good Pharmacist and a Good Citizen can be fulfilled by only an Ethical Graduate, hence measures for the same are required to be taken. We have good attainment still will improve.
------	-----	------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1. Code of conduct and ethics of the profession were incorporate during regular teaching and laboratories conduction so as to get the degree of attainment.

2. Daily and regular act by each staff is directed to give a strong message to the students to follow the ethical professional practices.
3. Expert Lectures for boosting the Morale and Conduct of the students were organized.

**PO 8 : Communication**

PO 8	2.5	2.18	Attainment level is quite comparable with respect to target level. Proper communication is key to successful and good professional. Attainment level indicated more extra input to be given for betterment.
------	-----	------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Target will be retained and will be observed for next academic year.

1. Only English Speaking Zones created in Institute.
2. Lectures and special classes pertaining to Improvement of Verbal and Non Verbal Communications conducted and planned for future sessions too.

**PO 9 : The pharmacist and society**

PO 9	2.5	2.34	Attainment level is somewhat achieved in comparison to target level. Will try to improve inculcating the interaction of students with community pharmacist.
------	-----	------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

1. Guidance and counseling sessions were conducted in tutorial classes for the students on issues related to society health.

2. Responsibilities of pharmacist for the use of drugs to the society by arranging awareness by conducting various health camps.
3. Health rallies will plan to ascertain the relationship with societies.

**PO 10 : Environment and Sustainability**

PO 10	2.5	2.09	The students were highly sensitized towards the Environment and Sustainability, but attainment levels shown that more attention in this regards is required.
-------	-----	------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

1. Target will be retained and will be observed for next academic year.
2. During Industrial Tour, students will be sensitized for environment and sustainability.
3. Regular feature in the class includes addressing this issue.

**PO 11 : Life-long Learning**

PO 11	2.5	2.01	Target moderately Achieved, Students have been advised to follow the recent trends in Pharma world by attending guest lectures, seminars, conferences, field visits, and referring to Journals, periodicals etc.
<p>1.The attitude of students towards openness to learn anywhere and anything will be developed.</p> <p>2.Information were also been forwarded to all alumni regarding life long learning process and stay updated.</p> <p>3.During alumni meets also the students were asked to share experiences so that the ongoing enrolled students will be motivated.</p>			

#### **POs Attainment Levels and Actions for Improvement- (2020-21)**

POs	Target Level	Attainment Level	Observations
<b>PO 1 : Pharmacy Knowledge</b>			
PO 1	2.5	2.6	Target Achieved, the attainment level indicates that students carry better knowledge and understanding of the Pharmacy subjects in online classes, but practical exposure needs to be expedite once Offline Classes resume
Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year, Once Offline Classes resume, Industrial applicable Practicals of the previous semesters will be taken up for each semester in extra time to make up losses during pandemics.			
<b>PO 2 : Planning abilities</b>			
PO 2	2.5	2.12	Target partly Achieved,Owing to the Pandemic Condition, students learnt coping with Syllabus in stipulated time.
Expert Lectures for Skill development, Time Management, Motivational sessions for stress management etc. were planned for upcoming Academic Year.			
<b>PO 3 : Problem Analysis</b>			
PO 3	2.5	2.13	Target partly Achieved, Via Online mode of classes conduction and non availability of laboratory Practicals that hampered problem identification and analysis.
1. Target will be retained and will be observed for next academic year. 2. Live online laboratory practicals were performed by teachers and discussed about In process Problems identification and resolutions.			
<b>PO 4 : Modern tool usage</b>			
PO 4	2.5	2.24	Target partially Achieved, Due to Pandemics, Faculties and Students were forced to rely on Modern tools like via digital platform for their routine Activities. It was observed that the activities were time bound and effective.
1. Target will be retained and will be observed for next academic year. 2. Training Session online platforms as via Zoom Classes, webex, Quiz, Google meet Classrooms etc. will be conducted as a part of Orientation Program. 3. Multiple Quizzes and activities on Various platforms were organized.			
<b>PO 5 : Leadership skills</b>			
PO 5	2.5	2.12	Target partly Achieved, It was observed that due to adversities of Pandemics an individual Leader in each student was not significantly identified.
1 Students were divided into Peer groups are made as a process and tasks were allotted to help them for developing skills for Leadership and Coordination. 2.Many online activities were coordinated with help and support of students exposing them to the trait of leadership.			

<b>PO 6 : Professional identity</b>			
PO 6	2.5	2.19	Target partly Achieved, The Role of Pharmacist as an integral part of the health care system has been established in the period of COVID Pandemic. Students feel proud and associate themselves with honor.
1.human perspectives insight of the pharmacy profession has also been given to them. 2. Importance of being a Pharmacist is instilled in the Students. 3 .Many sessions of Alumni and Experts were conducted to boost morale.			
<b>PO 7 : Pharmaceutical Ethics</b>			
PO 7	2.5	2.19	Target partly Achieved, It was observed that Students learnt and follow the pharmacy code of Conduct.
1. Target will be retained and will be observed for next academic year, 2. The Ethics of Students is appreciated during the Online classes and TG Sessions. 3. The Pharmacist oath, Code of Conduct has been demonstrated widely from time to time.			
<b>PO 8 : Communication</b>			
PO 8	2.5	2.0	Communication was established via Physical and Digital methods. It was an well establish system for flow.
1. Target will be retained and will be observed for next academic year. 2. Students were easier with the Digital Communication learning process and adapted for the same. 3. Communication classes will be organized so as to raise the confidence level of students at individual level.			
<b>PO 9 : The pharmacist and society</b>			
PO 9	2.5	2.1	Target partly Achieved, It has been observed that due to Pandemics, the direct interaction of the professionals to the society, was at rest.
1.Target will be retained and will be observed for next academic year. 2.During Online Classes, Students were encouraged to serve to the society via online mode and disseminate knowledgeable and preventive information about Pandemic, Truths and legal aspect of Vaccination. 3. Once the Situation returns to Normal, Activities for Connecting Pharmacist with Society will be started with help of Health Drives and Awareness camp activities.			
<b>PO 10 : Environment and Sustainability</b>			
PO 10	2.5	1.9	Target not Achieved, The Institute, Students and Faculties will focus on establishing Coherent relation with Environment.
Target will be retained and will be observed for next academic year			
<b>PO 11 : Life-long Learning</b>			

PO 11	2.5	1.89	Target not Achieved, Students have been advised to follow the recent trends in Pharma world by attending guest lectures, seminars, conferences, field visits, and referring to Journals, periodicals etc.
Target will be retained and will be observed for next academic year.			

#### **POs Attainment Levels and Actions for Improvement- (2019-20)**

POs	Target Level	Attainment Level	Observations
<b>PO 1 : Pharmacy Knowledge</b>			
PO 1	2.5	2.01	The attainment level indicates that students have good knowledge and understanding of the Pharmacy subjects.
1.Tough topics were taught in small groups of students. 2.Current developments were addressed through expert talks and conduction of value addition courses. 3.Lecture plan was revisited for consideration of the above observation to be taken care.			
<b>PO 2 : Planning abilities</b>			
PO 2	2.5	2.09	Due to the short span of the semester it was observed that the functioning of the labs and classes and also to speed up the syllabus coverage is reason for moderate attainment.
1.Regular visit to the Library done compulsory to students 2.Inclusion of the latest research was also incorporated in the lecture planning and practical demonstration. 3.The students were motivated to participate in extracurricular activities including inter institution, National level competition for better understanding and exposure.			
<b>PO 3 : Problem Analysis</b>			
PO 3	2.0	2.01	Although the term of the semester is very short so students doesn't allow to do more experimentation in the lab so they are somewhat lacking in problem analysis.
1. We made group of students for problem solving analysis through various activities. 2.They were involved in organizing and conduction of various co-curricular. 3.Guest lecture were also planned on time and resource management.			
<b>PO 4 : Modern tool usage</b>			
PO 4	2.0	2.18	Due to Pandemic situation the Faculties and Students were forced to rely on Modern tools for their routine Activities to perform. It was observed that the activities were on time and the target is achieved somewhat.
1.Training Session online platforms as via Zoom Classes, webex, Quiz, Google meet Classrooms etc. will be conducted as a part of Orientation Program. 2.Multiple Quizzes and activities on Various platforms were organized.			
<b>PO 5 : Leadership skills</b>			
PO 5	2.0	2.0	It was observed that due to COVID Pandemic hits on March 2020, it was observed that an individual Leader came out in each student. Students were responsible for the activity and performances of the class. Peer groups performed excellent in area of coordination and
Target achieved. Hence the target for next year will be increased to higher level.			

<b>PO 6 : Professional identity</b>			
PO 6	2.5	2.06	The Pharmacist played an important role and took part in the health care team during the period of COVID Pandemic. Students feel proud and associate them self with great honor and responsibility.
1. Students are addressed by the teaching fraternity about the scope and importance of their profession. 2. Indian perspectives insight of the pharmacy profession has also been given to them and importance of being a Pharmacist is instilled in the Students. 3. Various specific sessions of Alumni and Experts were conducted to boost morale of students.			
<b>PO 7 : Pharmaceutical Ethics</b>			
PO 7	2.5	2.10	It was partly observed that Students follow the idea of code of Conduct of pharmacy profession.
1. The Ethics of Students is instill and appreciated in class Sessions and Importance of being ethical is emphasized. 2. The Pharmacist oath, Code of Conduct has been demonstrated widely from time to time in different activities.			
<b>PO 8 : Communication</b>			
PO 8	2.5	2.05	During the pandemics, Communication was established via Digital methods. It was an excellent system for flow and dissemination of Information
1. Students were familiarized with the Digital Communication system and adapted for the same. 2. Communication classes will be conducted so as to raise the confidence level of students at individual level.			
<b>PO 9 : The pharmacist and society</b>			
PO 9	2.5	2.10	Target partly Achieved, Though the online attainment is good, It has been observed that due to Pandemic, the direct interaction of the professionals to the society, was at rest.
1. During Online Classes, Students were motivated to interact the society though online mode and disseminate information about the Pandemics, Truths and Myths of Vaccination. 2. Once the Situation returns to Normal, Activities for Connecting Pharmacist with Society will be taken up with help of Health Drives and Awareness activities.			
<b>PO 10 : Environment and Sustainability</b>			
PO 10	2.5	1.7	Target not Achieved, The Institute, Students and Faculties tried to establish a Coherent relation with Environment, we have observed the low attainment.
Target will be retained and will be observed for next academic year.			
<b>PO 11 : Life-long Learning</b>			

PO 11	2.5	1.67	Target not Achieved, Students have been allowed to understand and follow the current trends in Pharma world by referring to Journals, periodicals, sessions, etc.
<p>1. Target will be retained and will be observed for next academic year.      2. It has been inculcate in our students that Learning is a Forever Process.      3. During alumni meets, the old students were asked to share experiences so that enrolled students will be motivated.</p>			

## 8 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

### 8.1 Mentoring system to help at individual levels (5)

Total Marks 5.00

Tutor- Guardian Program was initiated by allotting 20-25 students to each faculty member to act as their guardian throughout the academic year.

Institute Marks : 5.00

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 group of 20-25 students from each class

TG 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 provide counselling whenever required.

Issues to be discussed with the students by mentor:

1. Attendance
2. Economic status
3. Behaviour
4. Personal study time table
5. Study pattern
6. Extra hobby classes etc.
7. Travelling details and difficulties
8. Difficulty in writing / speech
9. Confidence level
10. Ragging
11. Hostel / Food issues
12. Women related issues
13. In case of any other observations, it is noted and discussed.
14. Students are motivated to participate in co-curricular and extra-curricular activities.
15. Any other relevant issue

Following information about students is collected by individual mentors and a record maintained Students Personal Information

Previous Record Academic Performance

Competitive Examination Details

Details of Internship and Industrial Trainings Scholarships Received

Co-Curricular and Extra-Curricular activities.

The mentors meet the students periodically and monitor their performance and their activities. Guidance regarding the lagging issues is provided.

#### **Benefits**

- Enhances confidence and offers challenges to set higher goals take risks and achieve at higher levels
- Individual recognition and encouragement
- Psychosocial support
- Advice on balancing range of academic and professional responsibilities
- Provides role modelling for professional leadership and facilitates the development of increased competencies and stronger interpersonal skills
- Access to a support system during critical stages of student's academic and career development
- An insider's perspective on navigating your career
- Exposure to diverse perspectives and experiences
- It builds foundation of a lasting professional and personal network.

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

Feedback is a mandatory practice of the Institution and all the stakeholders are open to any kind of feedback that is available. We believe in Open, Timely and earnest feedback system.

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.

### Preliminary feedback

This is taken within 4 weeks of commencement of every new semester so as to assess the compatibility between the subject teacher and the class. The suggestions/complaints/appreciations from the students are shared with the concerned teacher and HODs. The teachers are counselled in case if the feedback is poor by the HOD, senior staff member of the department and Principal.

### Final feedback

This is taken one week before the end of each semester in the questionnaire format. The feedback is analysed and a report is generated for each faculty for every subject. However, the feedback is not shared with the teachers until the beginning of the following semester.

#### 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 counselled 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.

**Feedback collected for all courses: YES**

**Specify the feedback collection process:** Feedback is taken from regular (75 % attendance and above) students at regular interval in the classes during semester.

1. Feedback mechanism is a well organized system in the institute.
2. The system of feedback collection is manual.
3. Collected feedback form is scrutinized by the academic advisory committee and programme assessment committee.
4. The feedback is quantified manually.
5. All the parameters mentioned in the feedback form will be analyzed by members.

Percentage of students participating: 80-95%

**Format of the Feedback collected:** The Feedback form given to the students has 09 items which cover the following questions.

1. Punctuality in taking classes & or Labs
2. Knowledge of subject & its trends
3. Clear Communication while delivery / asking questions during classes.
4. Chalkboard / OHP / PPT / Models / Charts
5. Suitable Teaching speed, Loudness & proper body language
6. Derivations / Solving numerical / Questions / Case studies / Simulations
7. Guidance in tutorials / Lab Assignments / Exam papers solving / Project work
8. Home / Library assignment for self – learning
9. General comments



TRUBA INSTITUTE OF PHARMACY, BHOPAL  
IV SEMESTER  
FEEDBACK FORM

Branch: B.Pharm

Date:

*Note Students are requested to grade on 5 point average (i.e. 0 to 5.0)*

S. No	Teachers performance attributes	BP 401 T	BP 402 T	BP 403 T	BP 404 T	BP 405 T
1.	Punctuality & Regularity					
2.	Grasp & Command over subject					
3.	Explanation & Communication ability					
4.	Quality of assignment & tutorial					
5.	Interaction with student approachability					
6.	Overall teaching					
7.	Sincerity in class					
8.	Student suggestions					

0-1: poor; 02-03: Good; 03-04: V.Good; 5: Excellent

Practicals:

S. No	Teachers performance attributes	BP 401 T	BP 402 T	BP 403 T	BP 404 T	BP 405 T
1.	Punctuality & Regularity					
2.	Grasp & Command over subject					
3.	Explanation & Communication ability					
4.	Quality of practicals					
5.	Interaction with student approachability					
6.	Overall practical skills					
7.	Sincerity in Lab					
8.	Student suggestions					

0-1: poor; 02-03: Good; 03-04: V.Good; 5: Excellent

**Specify the feedback analysis process:** Data is transposed to excel sheet and statistical analysis is performed.

- The feedback analysis is done manually.
- All the parameters mentioned in the feedback forms are analyzed on two levels.

1st level: Average of one parameter with respect to teachers is calculated.

2nd level: Average of all parameters is calculated for respective teacher.

- Ability of teaching with respect to each parameter and complete ability of the teachers is analyzed

**Basis of reward/ corrective measures, if any:** Faculties, who do not get a good feedback are counselled by the Director and constructive suggestions are given.

Faculties (Subject Inchargs) asked to justify their performance and plan to improve results in coming sessions

1. Faculty members, who get average feedback below 3 on 1-5 scale are identified.
2. Those faculty members are given orientation lectures and special inputs by the senior persons of institute under institutional QIP/SDP Program.
3. Also the faculty members who get average feedback of 4 or above 4 on 1-5 scale are appreciated at the department level staff meetings.

**8.3 Feedback on facilities (5)**

Total Marks 5.00

Feedback for improving available facilities is collected in different modes like feedback from

Institute Marks : 5.00

- o Students
- o Alumni
- o Parents
- o Employer

Feedback is obtained from students during academic session

- Class representative meetings, guest lectures and other occasions etc
- Alumni feedback is obtained every year during alumni meetings and also during visit of alumni to institute.
- Parent's feedback is obtained during academic review meetings, parents-Teachers meetings and other occasions when parents visit to college.
- Employer feedback is taken during the working tenure of alumni.

Table 47 Feedback on Facilities

Committee	Structure	Function	Frequency
Feedback Committee	Chairperson – Administrator	To disburse the feedback forms among students	Once in a year (After the end of every semester)
	Coordinator – One senior faculty member	To collect and analyse the feedback on facilities	
	Members – One TA from each department	To suggest necessary actions based on feedback collected on facilities	

**Different facilities for which feedback are taken from students:**

- I. Canteen
- II. Hostel
- III. Emergency Transport
- IV. ATM & Banking Facilities
- V. Medical Facilities
- VI. Library
- VII. Mentorship
- VIII. Extra-Curricular Activities
- IX. Class Room
- X. Labs
- XI. Computer Facilities

**Feedback collected for assessment of facilities: YES**

**Specify the feedback collection process:**

Common feedback form is designed at the institutional level for all the semester by considering all the dimensions of the teaching-learning process such as lesson plan, student interactions, clearance of doubts, communication, pace of coverage, subject knowledge, punctuality, etc.

The feedback form is distributed manually to each student and filled forms are collected back by the faculty coordinator in the absence of the concerned faculty under the supervision.

The data will be analyzed, calculated for each and every course including laboratories.

A standard feedback questionnaire is prepared and collected

**Percentage of students participating: 80-95 %**

The feedback analysis process:

The feedback forms are compiled and each parameter process is being analysed to understand the positive and identify the areas of improvement thereafter a corrective action plan is developed to address the gaps identified through the feedback process

The implementation of the corrective action plan is monitored and followed up on a fortnightly by the Director.

**Basis for corrective actions:** In any parameters mentioned above, if average score obtained is less than 50%, actions may be triggered as per the requirement.



---

#### 8.4 Self Learning (5)

Total Marks 5.00

Self-learning, which is a personalized method of learning, is the new paradigm for the 21<sup>st</sup> Century. The learner is free to choose what to learn, how to learn, when to learn and where to learn. With the advancement of information and communication technology, the learner is getting familiarized with more and more to non-formal mode of education thereby shifting the preference to self-learning methods. Self-learning modules and materials make this learning process in our institute more effective.

**Facilities for self-learning:**

- Wi-fi enabled Campus
- Internet connectivity
- Exclusive internet/Language laboratory for students
- Well-equipped central library
- Digital Library
- E-Library (Delnet)
- Web based learning
- Free and open learning environment
- Video Lecture Bank (Prepared by Faculty Members of Institute)
- Seminar/Webinar organized by Institution for self-learning purpose.
- Events organized by institute student activity clubs that encourage self-learning
  - 1. National pharmacy week
  - 2. Truba utsav
  - 3. Seminars
  - 4. Short term courses/ modules
  - 5. Workshops
  - 6. Conferences
  - 7. Guest Lectures
  - 8. Technical models / paper presentations outside the institution
  - 9. Industrial Tours / educational tours
  - 10. Sports

---

**8.5 Career Guidance, Training, Placement (10)**

Total Marks 10.00

Training and Placement has been the cornerstone of the best practices adopted by the institute since inception. The quality and volume of placements achieved by the students of the institute have attracted talented fresh entrants and the achievements may be safely attributed to sound academics imparted by the faculty, holistic training designed in close collaboration with Industry and incessant innovation of the placement team towards attracting companies from near and far.

The execution revolves around a two-tier approach where Training and Placement Office works in tandem with Departmental Teams to create the right mix of Industry Relations and Academic Feedback.

**The Training and Placement Office** does a thorough market research on one hand and on the other hand closely monitors the student training needs. The key functions of the Office are as enumerated below:

- i. Relationship Management with companies already recruiting from the College.
- ii. Prospecting new companies for Placements and Internships.
- iii. Understanding training need and accordingly arranging summer/winter trainings in various Industries, FSPs, Seminars/Webinars, etc.
- iv. Actively participating in various Industry Associations and Forums to gain insights, initiate collaborations to create internship opportunities & MoUs, etc.
- v. Interacting with students and build exposure on Industry expectation for better employability.

**The Departmental Teams** were formed with an initial objective to create the last mile connectivity with students and keep track of strengths and weaknesses of individual student. The departmental teams also ensured seamless communication with students on all happenings and thereby ensure active participation of the students in every programme. The key functions are as enumerated below:

- i. Sharing recruitment notifications and ensure participation of the eligible candidates
- ii. Keeping track of placed candidates and collecting Offer letters in coordination with them.
- iii. Supporting T&P Office to identify training needs of the students and contribute in fixing the training calendar.
- iv. Encouraging students with aspiration for higher studies to declare the same as per placement policy and keeping a track of the same.
- v. Close coordination with T&P Office for smooth execution of all T&P agendas.



## TRUBA INSTITUTE OF PHARMACY

Karen Gandhi Nagar Bypass Road, Bhopal - 462 038 (M.P) Tel : (0755) 2734691-92-93, Fax : 2734694  
Office : 215, Zone-I, M.P. Nagar, Bhopal - 462 011, (M.P.) Tel. : 0755-4220040, 3013222, Fax: 2550830  
e-mail : info@trubainstitute.ac.in, Visit us at [www.trubainstitute.ac.in](http://www.trubainstitute.ac.in)

Ref: TIP/order/2022-2023/ 526A

Date: Sep 8,2022

### OFFICE ORDER

Placement and career Guidance cell has been reconstituted of Truba Institute of Pharmacy, Bhopal with following members:

#### Placement and career Guidance cell

S. No.	Name of committee member	Designation
1	Ms. Niharika Thakur	Placement officer
2	Ms. Nishtha Diwevedi	Placement Coordinator
3	Mr. Md. Abdul Aali Khan	Placement Co-Coordinator
4	Mr. Ashish Tiwari	Placement Co-Coordinator
5	Ms. Shubhranjali Diwedhi	Student member
6	Mr. Akshat Saxena	Student member

(Dr. Rajesh Singh Pawar)  
Principal, TIP

(Dr. Surendra Jain)  
Director, TIP



---

#### 8.6 Entrepreneurship Cell (5)

Total Marks 5.00

**Entrepreneurship Cell**

Even the greatest minds need a little push. We at **Entrepreneurship Cell** Cell, Truba Institute of Pharmacy, Bhopal, with a mission of bringing like-minded groups of people together and put those ideas or opinions into action & thereby creating a start-up culture. We believe that ideas are more than enough to be a great entrepreneur. Just with some exposure they can be the best of the best.

## Functions/Activity of Entrepreneurship Development Cell

1. Organize Entrepreneurship Development Programs (EDP) for the students and publics.
2. Conduct Entrepreneurship Awareness Camp (EAC) & workshop.
3. Conduct Business Plan Competitions.
4. Conduct lecturer session of successful entrepreneurs.
5. Mentor and assist them, who want to become entrepreneur.
6. Organize idea generation workshop
7. Invite speakers from Financial and Venture Capital institutions to enlighten on schemes and assistance existing to promote new ventures.



## TRUBA INSTITUTE OF PHARMACY

Karod-Gandhi Nagar Bypass Road, Bhopal - 462 038 (M.P). Tel. : 2734691-92-93. Fax: 2734694  
Off.: 215, Zone-I, M.P. Nagar, Bhopal - 462 011. Tel. : 4220040, 3013222  
e-mail : info@trubainstitute.ac.in, Visit us at [www.trubainstitute.ac.in](http://www.trubainstitute.ac.in)

### Entrepreneurship Cell

#### Innovation Cell /Club

This is to certify that the following Innovation Cell /Club is constituted for in College code 0151,

Truba Institute of Pharmacy, Karond bypass road, Bhopal 462038 (M.P).

Sr. No.	Name of member	Designation
1	Dr. Surendra K Jain	Chairperson
2.	Dr. R.S. Pawar	Coordinator Head
3.	Prof. Vinod K.Dhote	Coordinator
4.	Prof. H.G Garg	Coordinator
5.	Prof. Seerat Anwar	Executive committee
6.	Prof. Vipul Patel	Co-Executive committee
7.	Prof. Kanika Dhote	Coordinator
8.	Prof. Niharika Thakur	Co-coordinator
9.	Prof. Rishiraj Singh Shrivastava	Co-coordinator

Dr. R S Pawar  
Coordinator Head / Principal  
College code 0151  
Truba Institute of Pharmacy

Dr. Surendra K .Jain  
Chairperson / Director  
College code 0151  
Truba Institute of Pharmacy



## TRUBA INSTITUTE OF PHARMACY

Karond-Gandhi Nagar Bypass Road, Bhopal - 462 038 (M.P.) Tel : (0755) 2734691-92-93, Fax : (0755) 2734694

e-mail : info@trubainstitute.ac.in, Visit us at www.trubainstitute.ac.in

MANAGED BY : TRUBA ADVANCE SCIENCES KOMBINE

215, Zone-I, M.P. Nagar, Bhopal-462011, Tel: 0755-4220040, 3013222, Fax : 2550830

Ref. No. : TIP/OO/2022-23/..6.I.1.....

Date: 07.12.2022

### OFFICE ORDER

Institute level Institute Innovation Council, Truba Institute of Pharmacy (IIC, TIP) has been reconstituted for the Academic Year 2022-23 and shall be operative with immediate effect.

<b>President:</b>	Dr. Surendra Kumar Jain, Director, TIP
<b>Vice President:</b>	Dr. Rajesh Singh Pawar, Principal, TIP
<b>Convener:</b>	Dr. Archana Bagre, Associate Professor, TIP
<b>Start-up Activity Coordinator</b>	Dr. Shalini Bajaj, Associate Professor, TIP
<b>Internship activity coordinator:</b>	Ms. Niharika Thakur, Associate Professor, TIP
<b>IPR Activity coordinator:</b>	Dr. Archana Bagre, Associate Professor, TIP
<b>Social Media Coordinator:</b>	Mr. Vipul Patel, Assistant Professor, TIP
<b>Innovation Activity Coordinator:</b>	Mrs. Kajal Khan, Assistant Professor, TIP
<b>ARIIA Coordinator:</b>	Ms. Sonika Prajapati, Assistant Professor, TIP
<b>NIRF Coordinator:</b>	Mr. Vinod K. Dhote, Associate Professor, TIP
<b>Member:</b>	Mrs. Kanika Dhote, Associate Professor, TIP
	Mr. Abdul Ali Khan, Associate Professor, TIP
	Ms. Ruksar Mansoori , Assistant Professor, TIP

Dr. Rajesh Singh Pawar  
Principal, TIP

Dr. Surendra Kumar Jain  
Date: 07.12.2022

(Principal, TIP)

(Director, TIP)

**8.7 Co-curricular and Extra-curricular Activities (10)**

Total Marks 10.00

**a) Co-curricular activities** Students at TIP actively participated in various co-curricular activities such as research paper/poster presentation, project presentation, seminars, conferences, workshops, etc.

**b) Extracurricular activities** Students at TIP actively participated in various extra-curricular activities such as annual social function- TRUBA -UTSAV, National Pharmacy Week (NPW) in association with Indian Pharmaceutical Association (IPA), National Service Scheme (NSS), Red Ribbon Club (RRC) and Student Development Cell (SDC) programs.

#### 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 lectures from academia and industry people to enrich the knowledge.

Career guidance lecture and all necessary information are provided for the GPAT and competitive examination preparation.

Creating awareness towards the important role of the pharmacist in health care and well being of the people.

#### 1. Institutional Innovation's Council, Truba Institute of Pharmacy (IIC-TIP) Activities:

IIC-TIP activities involve students to increase critical thinking for innovation and start-ups. Various activities conducted under IIC-TIP:

- Seminar/ Webinar
- Expert Lecture
- Visit to Incubation centers
- Visit to Design Centers
- Tech-Fest
- Prototype/ Working Model making competition

#### 2. Celebration of World Pharmacist Day and National Pharmacy week:

The faculty and students are regularly participating in World Pharmacist Day and National Pharmacy Week celebrations and the following were the activities conducted during the last 3 year National pharmacy week (NPW).

Awareness Rally for generating widespread awareness/educate the public about the pharmacist and the pharmacy profession and its vital role in society.

Participation in inter-institute events by students of the program of study

S. No.	Type of Activity	Name of activity	Date of activity	Organized by/ Venue	No of students participated
<b>2022-2023</b>					
1. Conference					
		International Conference on A Road map for implementation of Quality by Design Tools	25-26 Feb 2023	RGPV	10
		National conference on Emerging trends and innovations in applied Pharmaceutical Sciences	13/11/2022	SCAN Lab and MPCOST	05
		Biomarker as Targeted herbal Drug Discovery	14/10/2022-15/10/2022	TIP	252
2. Webinar					
		Awareness session on Pharmaceutical Industry	08 and 15 Jan 2023	TIP	210
		Job opportunities for Indian pharmacist in Australia and canada	01/09/2022	TIP	118

		Importance of Professional Ready Training in clinical research and pharmacovigilance	17/08/2022	TIP	95
		Magic Handwriting	13/10/2022	Online	2
Seminar					
		IPR: Awareness Programme	24/08/2022	TIP	85
Workshop					
		Intellectual Property Rights (IPR) & Patent and Design Process	14/07/2022	TIP	225
		Hands-on Training on “UV-VIS Spectrophotometer”	06/ 09/2022	TIP	110
		Hands-on Training on “HPLC Instrument”	07/09/2022	TIP	106
		Intellectual Property Rights (IPR) & Patent, Designs filing	02/11/2022	TIP	452
		Design Thinking, Critical Thinking and Innovation design	26/12/2022	TIP	85
		Workshop HPTLC TECHNIQUES AND APPLICATION	14/10/2022	TIP	35
STTP		Pre-Placement Talk	4-5 Feb 2022		165
		Process of Formulation Development	11-12 Feb 2022		180
		Basic Practices in Pharmacy	25-26 Feb 2022		65

S. No.	Type of Activity	Name of activity	Date of activity	Organized by/ Venue	No of students participated
--------	------------------	------------------	------------------	---------------------	-----------------------------

#### 2021-22

1	Webinar				
		Pharmaceutical Product development approval process: Overview on development strategies and regulatory challenges	08/06/2021	TIP	65
		Challenges in cancer nanomedicines	25/05/2021	TIP	85
		Webinar on World Liver Day	19/04/2021	GH Raisoni University Bhopal	45
		Psychological impact of covid-19 on young women: A solution based approach	06/02/2021	SOPS- RGPV Bhopal	24
		Plastic Free India Challenge Clean Noida Project	15/07/2021	HCL Foundation	10
		Internship Course	17 June 21 July 2021	Kindbeings NGO	1
		Integrated institutional education and research with industrial requirements	09/10/2021	Royal College of Pharmacy and Health Science Orissa	95

2	Seminar				
		How to get higher LPA Jobs in Pharmacovigilance corporate	11/09/2021	TIP	56
3	Workshop				

		Pharmacovigilance: Opportunity & Future Career Prospects for Budding Graduates	25/06/2021	TIP	60
--	--	--------------------------------------------------------------------------------	------------	-----	----

S. No.	Type of Activity	Name of activity	Date of activity	Organized by/ Venue	No of students participated
--------	------------------	------------------	------------------	---------------------	-----------------------------

**2020-2021**

1	Webinar				
	Dendrimer mediated multi functional Brain Targeted Nanodevices	27/05/2020	TIP	759	
	"The Role of Intellectual Property Management & Technology Transfer in Academic Institutions around the World	28/05/2020	TIP	759	
	Challenges and opportunities of Traditional medicine in India: Before and after Covid-19"	10/06/2020	TIP	503	
	Biologics and their Impact on Pharmaceutical Industry"	13/06/2020	TIP	296	
	On "How to make your carrier in Clinical Research"	15/06/2020	TIP	270	
	"Enhanced Solubilization Through Amorphous Solid Dispersions-Hot Melt Extrusion"	18/06/2020	TIP	370	
	UHPLC – Basics & Principles (Instrumentation & Columns)	20/06/2020	TIP	239	
	Formulation consideration of Sterile Product	23/06/2020	TIP	273	



**Extracurricular Activities:** Programme for various Extra-curricular activities

S.No.	Activity	Institute level
1.	Sports/ Game	Inter-college sport competitions
2.	Cultural	Annual Day celebration
		Youth Fest
3.	Other Extra-curricular	NSS Activities
		RRC Activities
		SAC Activities

#### **NSS Activities:**

National Service Scheme (NSS) provides an excellent opportunity to the students who desire to serve the community and to develop interpersonal relationships and skills. TIP-NSS activities make students to be socially conscious through promoting NSS functions effectively by conducting tree planting (Ankur Programme) campaigns and blood donation camps. AIDS awareness programmes and First Aid awareness programmes also organized.

The students of TIP are actively participated in various activities include;

- a. Plantation of Trees
- b. Road safety Awareness program
- c. Social Awareness Campaign
- d. Guest Lecture on AIDS Awareness Program
- e. Guest Lectures for health awareness

**Events organized/Participated by NSS Team TIP:**

1. Conducted Painting poster making, essay, elocution competition
2. Participation of essay competition.
3. Participated Inter college events.
4. Attending fire safety training program

**Red Ribbon Club (RRC-TIP):**

Red Ribbon Club (RRC) is a voluntary on campus intervention, aiming at heightening their risk perception and preventing HIV- AIDS as well as promoting voluntary blood donation among youth between the age of 17-25 yrs. RRC-TIP organizes various activities every year such as Blood Donation camp , Health check-up camp conducted under this club.

## Extra-curricular Activities:

Session 2022-2023

Year	Date	Title	Theme	Activities	Venue	No of Participants
1.	11/01/2023	Online activity MIC driven activity quarter 2	Orientation session on IIC 5.0	IIC Activity	TIP	145
2.	05/01/2023	Orientation program "Genesis 2023"	Orientation program for Newly-admitted students	-	TIP	95
3.	06/01/2023	Fresher's Party- "Genesis 2023"	Fresher's party	-	TIP	95
4.	27/01/2023	Pariksha pe charcha	Ministry of Education	-	TIP	10
5.	09/09/2022	Ganesh chaturthi poojan and visarjan	Ganeshotava	-	TIP	175
6.	24-26/09/2022	World Pharmacist day	Pharmacy United in action for a healthier world	Cricket, Vollyball, Badminton, Chess, Carrom, Table Tennis, Body check-up camp, Quiz competition, Drawing competition, Face painting, Pharma rangoli, Best out of waste, Poster Presentation	TIP	205
7.	14/12/2022	Celebration of "National Energy conservation Day-2022"	Save Energy for sustainable Future	Innovative slogan writing competition, Speech Competition and Poster Making competition	TIP	55

8.	01/03/2022 05/03/2022	to "Ankur program" plantation program	Plantation	Plantation	TIP	65
9.	14/03/2022	Farewell party of 2022 batch	Farewell Party	-	TIP	185
10.	17/03/2022	Pre Holi celebration	-	-	TIP	95
11.	14/11/2022	Children's day celebration <b>Hungama event</b>	Children's Day celebration	-	-	220
12.	23/11/2022	IPC-2023 Awareness program	-	Awareness session	TIP	85
13.	22/10/2022	Pre-Diwali celebration	-	-	TIP	45
14.	14/08/2022	Attended pledge on "Say Yes to life no to drug"	Narcotic control Bureau Ministry of home affairs	Pledge	Ministry of Education	
15.	20/08/2022	Quiz on Seva Sushasahn garib kalian	Ministry of electronics and IT GOV	Quiz Competition	Ministry of electronics and IT GOV	29
16.	23/11/2022	Online quiz National Pharmacy Week	-	Quiz Competition	Bansal College of Pharmacy, Bhopal	15
17.	08/03/2022	National level quiz competition, Womens day- celebration 2022	-	Quiz Competition	TIP	18



## 9 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (100)

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

Total Marks 95.00

Total Marks 50.00

**Organization and Governance:**

The institute has a well-marked administrative set up. The organization and governance works through various administrative and academic committees mentioned below:

- Governing Body
- College Development Committee
- Organizing Committee
- Academic Committee
- Examination Committee
- Discipline Committee
- Purchase Committee
- Student Development Committee
- Anti-ragging Committee
- Grievance Redressal Cell

**GOVERNING BODY****Constitution:**

The Governing Body consists of the Director, Principal, Authorized persons of Society and Nominees of Approving Bodies and faculty members. The Governing Body is responsible for the operation of all aspects of the Institute including its finance, educational and research functions, and domestic arrangements. The Governing Body may delegate certain functions to Executive Officers and to Committees, but it still retains ultimate responsibility for the running of the Institute. The Governing Body meets once in a year.

**BOG**

S. NO.	Name of Member	Designation
1.	Er. Sunil Dandir, Chairman, TASK	Chairman
2.	Er. Shyam Rathor, Board Member, TASK	Vice-chairman
3.	Shri Dharmendra Raghuvanshi, Board Member, TASK	Member
4.	Shr. K.C. Rathor, Member, TASK	Member
5.	Dr. Surendra Jain, Director, TIP	Member-Secretary
6.	Dr. R.S. Goswami, Hind Pharma, Industrialist, Bhopal	Member
7.	Dr. Manish Manoria, Educationist	Member
8.	V.C. RGPV Representative/ Nominee	Member
9.	An Industrialist / Educational nominated by state govt.	Member
10.	Regional officer, AICTE, R.O. Nominee	Member
11.	An Industrialist/ Educational nominated by R.O.	Member
12.	Dr. Rajesh Singh Pawar, Principal	Member
13.	Ms. Kanika Dhote, Associate Professor	Member

**Broad functions:**

- To ensure that the Institute is well run, meets the needs for which it has been set up and remains solvent,
- To always act in the best interests of the Institute, rather than of the individual, and to avoid conflicts of interest or misuse of funds.
- To use reasonable care and skill in their work as members of the Governing Body and to seek professional advice where appropriate.
- To regularly attend meetings of the Governing Body and the Committees on which they serve, and to acquire appropriate knowledge to contribute effectively to decision making.
- To ensure that the finances are used appropriately, prudently and in accordance with the objectives of the Institute.
- To take overall responsibility for student welfare.
- To comply with the Statutes and Bylaws of the Institute.

**1. Administrative set up**

<b>Name of member</b>	<b>Designation</b>	<b>Function</b>	<b>Responsibility</b>
Dr. Surendra Jain	Director	Management	Management of working of faculty and nonteaching staff and other.

**2. Task group**

<b>Name of member</b>	<b>Designation</b>	<b>Function</b>
Dr. Surendra Jain	Professor, Director	Management
Dr Rajesh Singh Pawar	Professor	Documentation
Mr Vinod Kumar Dhote	Associate Professor	Documentation
Dr Shalini Bajaj	Associate Professor	Documentation, Academics
Dr Archana Bagre	Associate Professor	Documentation
Mr Shubham Vishwakarma	Assistant Professor	Documentation
Dr Krishn Kishore Badoniya	Associate Professor	Examination, Animal House
Mr Keshav Das Sahu	Assistant Professor	Examination
Ms Seerat Anwar	Assistant Professor	Examination
Ms Kanika Dhote	Associate Professor	Printing, publicity
Ms Niharika Thakur	Associate Professor	Printing, publicity, Training & placement
Mr Vipul Patel	Assistant Professor	Printing, publicity, Store
Mr Abdul Ali	Assistant Professor	Events, Student activities, Training & placement
Ms Sonika Prajapati	Assistant Professor	Events, Student activities, Library Management
Ms Khushbu Rani Sahu	Assistant Professor	Events, Student activities
Ms Asra Ali	Assistant Professor	Events, Student activities
Mr Anil Singh	Lab Tech	House keeping Store
Mr Mukesh Pawar	Lab Tech	House keeping Store
Mr Neelesh Vishwakarma	Library Attendant	House keeping
Mr Bhojram Choure	Deputy Registrar	Discipline
Ms Neetu Chourasia	Assistant Professor	Animal House
Ms Kajal Khan	Assistant Professor	Animal House
Ms Sunita Malviya	Library	Library Management

**3. Consultancy for R & D**

<b>Name of member</b>	<b>Designation</b>	<b>Function</b>	<b>Responsibility</b>
Dr. Surendra Jain	Professor, Director	Management	Project and placement of student
Dr Rajesh Singh Pawar	Professor	Interaction with Herbal industries	Project
Dr Archana Bagre	Professor	Interaction with chemical industries	Project

Ms Kajal Khan                      Associate Professor                      Interaction with Pharmaceutical industries                      Project

Mr Vipul Patel                      Associate Professor                      Interaction with Pharmaceutical industries                      Project

#### **COLLEGE DEVELOPMENT COMMITTEE**

##### **Broad functions:**

- Overview of academic and other related activities of the institute.
- Overview the recommendations of the Staff Selection Committee.
- To monitor the students and faculty development programs.
- To implement the recommendations of the Governing Body.
- The College Development Committee should meet twice in a year.

#### **ORGANISING COMMITTEE**

##### **Broad functions:**

- Overview of academic and other related activities of the institute.
- Overview important communications, policy decisions received from the University, Government, AICTE/ PCI, etc.
- Overview of students and faculty development programs.
- Implementation of the recommendations of the Governing Body.
- Review the income and expenditure of the institute as and when required.
- The Organizing Committee meets once in a month.
- The Finance Registrar prepares annual budget which is reviewed and approved by Secretary & Chairman Truba Advances and Kombine.

#### **ACADEMIC ADVISORY COMMITTEE**

##### **Broad functions:**

- To display the session plan (Time -Table) and portion for Classes,
- To guide the students about rules of attendance (general), Industrial Visits, sports, medical leave,
- Address students' queries,
- Collect information regarding weaker students from the course teachers and arrange counseling sessions,
- Update data regarding students' achievements in academics, sports, extracurricular activities
- Any other duty the Director/ Principal may assign.

#### **EXAMINATION COMMITTEE**

##### **Broad functions:**

- The Examination Committee plans administration and organization of all aspects of internal and external examinations in accordance with the regulations laid down by SPPU.
- The College Examination Officer (CEO) provide administrative lead on all aspects relating to College examination and achievement procedures, including link with students, faculty, invigilators and examining bodies.

#### **ANTI-RAGGING SQUAD**

##### **Broad Functions:**

- Be vigilant on any acts amounting to ragging.

- To publicize to all students the prevalent directives and the actions that can be taken against those indulging in ragging.
- To consider the complaints received from the students and conduct enquiry and submit report to the Anti- Ragging Committee along with punishment recommended for the offenders.
- Oversee the procedure of obtaining undertaking from the students in accordance with the provisions.
- To take all necessary measures for prevention of Ragging inside the Campus/ Hostels.

#### **DISCIPLINE COMMITTEE**

**Broad functions of Discipline Committee:**

- Regulate the adherence of the code of conduct for students,
- To maintain discipline in college,
- Meets atleast twice in a year.

#### **PURCHASE COMMITTEE**

**Broad functions:**

- To review the annual requisitions for chemicals, glassware, equipment, etc for the academic year and prepare a collective statement of the same.
- Meets atleast twice in a year or as and when required.

#### **STUDENT DEVELOPMENT COMMITTEE**

**Broad functions:**

- Plan and overviews students' extra-curricular activities.
- Encourages and guides students in the same.

#### **GRIEVANCE REDRESSAL CELL**

**Broad Functions:**

- The cases will be attended promptly on receipt of written grievances from the students.
- The cell formally will review all cases and will act accordingly as per the Management policy.
- The cell will give report to the authority about the cases attended to and the number of pending cases, if any, which require direction and guidance from the higher authorities.

#### **Published rules, procedures, recruitment and promotional policies, etc.**

- The rules, policies and procedures for smooth conduct of administration are well defined.
- The rules concerning leave and conveyance rules applicable to the staff are framed properly.
- Appointment of new staff is done in a transparent manner.
- The procedure involves notification of vacancies in the national and local newspapers.
- Recruitment of faculty and staff for regular appointment is done by the SPPU Staff Selection Committee comprising of the course experts, VC nominee, DTE nominee, the management representatives and the Principal.
- In case of immediate requirement, recruitment is done on local level including course experts and/or Principal, and management representatives.



## TRUBA INSTITUTE OF PHARMACY

Karond-Gandhi Nagar Bypass Road, Bhopal - 462 038 (M.P.) Tel. : (0755) 2734691-92-93, Fax : 2734694

Office : 215, Zone-I, M.P. Nagar, Bhopal - 462 011, (M.P.) Tel. : 0755-4220040, 3013222, Fax: 2550830

e-mail : info@trubainstitute.ac.in, Visit us at www.trubainstitute.ac.in

Ref: TIP/order/2022-2023/ 629 A

Date: 24 Dec2022

### GREIVANCE REDRESSAL CELL

All the faculty , staff and students are hereby informed that a “ Greivance Redressal Cell” has been established in the Institute consisting of following members as per UGC & AICTS guidelines.

S. No.	Member	Designation
1	Dr. A.M. Jain , Ex Professor , UIT RGPV Bhopal	<b>Ombudsman</b>
2	Dr. Rajesh Singh Pawar, Principal , TIP	<b>Chairperson</b>
3	Mr. Shubham Vishwakarma	<b>Member</b>
4.	Mr. Keshav Das Sahu	<b>Member</b>
5.	Ms. Varsha Ahirwar	<b>Member</b>

- This cell is constituted to address the grievance of faculty , staff and students within 24 hrs.
- If any of the staff or students has any Greivance , they can either drop in writing in the “Greivance Cell Box” situated near Principal’s Cabin.
- Complaint can be mailed to [grievancetip@trubainstitute.ac.in](mailto:grievancetip@trubainstitute.ac.in)

Dr. Rajesh Singh Pawar  
Principal,TIP

*[Signature]*

Dr. Surendra K Jain  
Director TIP



## TRUBA INSTITUTE OF PHARMACY

Karond-Gandhi Nagar Bypass Road, Bhopal - 462 038 (M.P.) Tel. : (0755) 2734691-02-03, Fax : 2734694  
Office : 215, Zone-I, M.P. Nagar, Bhopal - 462 011, (M.P.) Tel. : 0755-4220040, 3013222, Fax: 2550830  
e-mail : info@trubainstitute.ac.in, Visit us at [www.trubainstitute.ac.in](http://www.trubainstitute.ac.in)

Ref: TIP/Order/2022-23/S.Rb I

Date: 11 November 2022

### ANTI-RAGGING COMMITTEE

Following Anti-ragging committee is constituted in the Institute with immediate effect for the session 2022-23.

Chairman: Dr. Rajesh Singh Pawar, Principal (9826219429) [drrajesh.pawar@trubainstitute.ac.in](mailto:drrajesh.pawar@trubainstitute.ac.in)

(A) FACULTY REPRESENTATIVES.

- 01. Dr. Shalini Bajaj, Associate Professor (7974405051)
- 02. Ms. Rukhsar , Assistant Professor (9755986806)
- 03. Mr. Abdul Aali Khan, Assistant Professor (7898461941)
- 04. Mr. MukeshPawar, Lab Tech (9009071518)

(B) NON-TEACHING STAFF

- 01. Ms. SunitaMalviya Librarian (7773087826)
- 02. Shri P.C. Shrimal, Administrative Officer (09425005497)

(C) POLICE REPRESENTATIVE

- 01 T.I. Karond Police Station (0755-2677390)
- 02 Mr. Dinesh Singh Chouhan, SI, ATS, Bhopal (9479990726)

(D) MEDIA REPRESENTATIVE

- 01 Mr. Kirti Gupta, Correspondent DainikBhaskar(9425017080)

(E) PARENTS REPRESENTATIVES

- 01. Mr. Rajendra Kumar Pandit (9827280496)
- 02. Mr. Basir Khan (9977530983)

(F) SOCIALLY AWARENESS MEMBER

- 01. Mr.JanmeshChaturvedi, Industrialist (9826054517)
- 02. Mr. SandeepBhardwaj, Businessmen (987016545)

(G) STUDENT REPRESENTATIVE

- 01. Mr. AkshatSaxena,VIISem (9630192073)
- 02. Ms. ShubhranjaliDwivedi VII Sem (9399060120)
- 03. Ms. Shikhu Singh, VIISem (8319123940)
- 04. Mr.Samit Jain, VIISem (9179405556)
- 05. Ms. ShivangiSoni IVSem (8085483754)
- 06.Mr. AyushSisodiya IVSem (6265212598)
- 07.Ms. Sakshi Pandit I Sem (8602511446)
- 08.Mr.Sahil Khan I Sem (9575783928)

Duties:

1. The Anti-ragging committee should ensure compliance with the provision of AICTE regulations, Supreme Court regulations, as well as the provisions of any law for the time being in force concerning ragging.
2. Should constitute Anti-Ragging Squads for maintaining vigil, oversight and patrolling. The squads shall remain mobile, alert, and active at all times.
3. Monitor and oversee the performance of the Anti-Ragging Squad in prevention of ragging in the Institution.
4. Should instruct the Anti-Ragging Squads to make surprise raids on hostels, and other places vulnerable to incidents and having the potential for ragging. These must have the power to inspect such places.
5. Should constitute the enquiry committee if any ragging case is found or reported, and put-up the finding before the undersigned for further action.

(Dr. Rajesh Singh Pawar)  
Principal, TIP

(Dr. Surendra Jain)  
Director, TIP

### **9.1.2 Decentralization in working and grievance redressal mechanism (15)**

Institute Marks : 15.00

#### **Decentralization in working and grievance redressal mechanism**

##### **Decentralization in working**

Administrators / Decision makers:

- Head of the Institution –Director, TIP
- Heads of Academic Portfolios.
- The Individual Heads of Academic Committees have been assigned with respective administrative responsibilities.

##### **Grievance Redressal Mechanism:**

The institute has a Grievance Redressal Cell to redress the grievance of its stakeholders. The students approach the cell to voice their grievances regarding academic matters health services, library, other services or any other grievance. A Student may send their grievance to the authorities through putting the note in the Grievance box in at Administrative Block. The cell redresses the grievances by sorting out the problems promptly and judiciously.

##### **Objective:**

The objective of the Grievance Cell is to develop a responsive and accountable attitude among all the stakeholders in order to maintain a harmonious educational atmosphere in the institute. The Grievance Cell should be constituted for the redressal of the problems reported by the students of the Institute with the following objectives:

- Upholding the dignity of the Institute by ensuring strife free atmosphere in the Institute through promoting cordial Student-Student relationship and Student-teacher relationship etc.
- Encouraging the students to express their grievances / problems freely and frankly, without any fear of being victimized.
- Suggestion / complaint box is installed in front of the Administrative Block in which the Student, who want to remain anonymous, put in writing their grievances and their suggestions for improving the Academics / Administration in the Institute.
- Advising students of the institute to respect the right and dignity of one another and show utmost restraint and patience whenever any occasion of rift arises.
- Advising all the students to refrain from inciting students against other students, teachers and Institute administration.
- Advising all staffs to be affectionate to the students and not behave in a vindictive manner towards any of them for any reason.

### **9.1.3 Delegation of financial powers (15)**

Institute Marks : 15.00

#### **Delegation of financial powers**

- The ‘Organization Committee’ reviews and approves the expenditure of the institute regularly.
- The concerned faculty has the financial power to put up the budget for delegated activity which is approved by the Principal of the Institute
- Director/Principal has the authority to approve the Budget put up by the concerned faculty.
- For any other expense not covered in above point and in emergency situations, Principal reserves the financial right.
- Annual Budget is prepared by the Financial Registrar in association with Director/Principal of institution.

### **9.1.4 Transparency and availability of correct/unambiguous information in public domain (10)**

Institute Marks : 10.00

#### **Transparency and availability of correct/unambiguous information in public domain**

The following rules and codes of conduct have been displayed on the institute website:

- Rules for admissions to program in pharmacy are as per DTE-MP norms.
- Fee structure
- Rules for attendance
- Rules for examination

**9.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)**

Total Marks 25.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 &amp; CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

**Table 1 - CFY 2022-2023**

Total Income 31316752				Actual expenditure(till...): 29837000			Total No. Of Students 567
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
31316752	0	0	0	29837000	0	0	52622.57

**Table 2 - CFYm1 2021-2022**

Total Income 31339150				Actual expenditure(till...): 30162706.54			Total No. Of Students 559
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
31339150	0	0	0	30162706.54	0	0	53958.33

**Table 3 - CFYm2 2020-2021**

Total Income 23290184				Actual expenditure(till...): 19145990.54			Total No. Of Students 498
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
23290184	0	0	0	19145990.54	0	0	38445.76

**Table 4 - CFYm3 2019-2020**

Total Income 25538128				Actual expenditure(till...): 25538128			Total No. Of Students 391
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
25538128	0	0	0	25538128	0	0	65314.91

Items	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till	Budgeted in 2019-2020	Actual Expenses in 2019-2020 till
Infrastructure Built-Up	0	0	250000	189000	0	0	0	0
Library	300000	174000	250000	150500	200000	52550	150000	206800
Laboratory equipment	1500000	1198000	500000	260000	500000	0	500000	0
Laboratory consumables	300000	100000	300000	155000	300000	23000	300000	195000
Teaching and non-teaching staff salary	17500000	15890000	17500000	16755000	12000000	9629000	12000000	10828000
Maintenance and spares	600000	311000	1000000	698000	300000	72000	500000	276000
R&D	0	0	0	0	0	0	0	0
Training and Travel	500000	385000	500000	411000	500000	227000	300000	0
Miscellaneous expenses*	12500000	11779000	12500000	12143000	10000000	9194000	10000000	9528000
Others, specify	0	0	0	0	0	0	0	0
<b>Total</b>	<b>33200000</b>	<b>29837000</b>	<b>32800000</b>	<b>30761500</b>	<b>23800000</b>	<b>19197550</b>	<b>23750000</b>	<b>21033800</b>

#### 9.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

The yearly budget is prepared according to the needs and requirements of the institute taking into consideration annual intake of students, laboratory and infrastructure requirements.  
Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

#### 9.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

**Percent utilization of Funds**

Sr. No.	Financial Year	Funds Allocated	Funds Utilized	% of utilization
1	2022-23	33200000	29837000	89.87
2	2021-22	32800000	30761500	93.79
3	2020-21	23800000	19197550	80.66
4	2019-20	23750000	21033800	88.56

**TRUBA INSTITUTE OF PHARMACY**

**RUN BY TRUBA ADVANCE SCIENCES KOMBINE**

**Karod Gandhi Nagar By Pass Road, Bhopal,**

**Income & Expenditure Account For The Year Ended 31st March, 2021**

Expenditure	Amount Rs.	Income	Amount Rs.
<b>ADMINISTRATIVE EXPENSES:</b>			
Affiliation Fees	496500.00	Tuition and Other Fees	23095684.63
Bank Charges	160560.34	Bus Fees	<u>194500.00</u>
Bus Charges Paid	202139.00		<b>23290184.63</b>
College Expenses	18034.00		
Conveyance Expenses	210500.00		
Counselling Expenses	992224.00		
Electricity Expenses	489088.00		
EPF Contribution	23143.00		
ESIC Contribution	44672.00		
Examination Expenses	214817.00		
Honorarium	56900.00		
House Keeping Expenses	155750.00		
Internet Expenses	91196.00		
Interest Paid	5338582.00		
Journals & Periodicals	52550.00		
Lab Chemicals & Consumable	23060.00		
Land Lease Rent	21701.00		
Maintenance Charges	71712.00		
Photocopy Expenses	12636.20		
Professional Charges	204272.00		
Promotional Expenses	50925.00		
Property Tax	98315.00		
Salary Non Teaching Staff	1305170.00		
Salary Teaching Staff	8324143.00		
Security Expenses	144960.00		
Software Development Charges	93600.00		
Telephone Expenses	21883.00		
Training and placement Exp.	226958.00		
	<b>19145990.54</b>		
<b>Excess Of Income Over Expenditure</b>	<b>4144194.09</b>		
<b>Total:</b>	<b>23290184.63</b>	<b>Total:</b>	<b>23290184.63</b>

As per our Report of even date attached

For JOSHI VINOD AND COMPANY

Chartered Accountants

(Vinod Joshi)

Proprietor



13 NOV 2021

Chairman

Secretary

Treasurer

CHAIRMAN  
Date: \_\_\_\_\_  
TRUBA ADVANCE SCIENCES KOMBINE SECRETARY  
Place: Bhopal  
Bhopal

SECRETARY  
Truba Advance Sciences Kombine  
Bhopal

**TRUBA INSTITUTE OF PHARMACY**  
**RUN BY TRUBA ADVANCE SCIENCES KOMBINE**  
Karod Gandhi Nagar By Pass Road, Bhopal.

**Balance Sheet as on 31st March 2020**

Balance Sheet as on 31st March 2020					
Liabilities	Amount Rs.	Amount Rs.	Assets	Amount Rs.	Amount Rs.
<b>GENERAL FUND:</b>	<b>FIXED ASSETS</b>				
Opening Balance	21809621.16		As per Schedule 'B'		23047950.97
Add: Excess of Income Over Expenditure	<u>4712321.30</u>	26521942.46			
			<b>CURRENT ASSETS:</b>		
Student Caution Money	608720.00		Sundry Debtors	28461157.72	
			Cash at Bank:		
Advance Fees Received	6345000.00		PNB A/c No. 21-21096	19972.98	
			PNB A/c No. 21-21087	10536.62	
Allumni Fund	18500.00		PNB A/c No. 21-25481	10000.00	
			YES BANK A/c No. 087-023	335022.00	
Security Deposit	7000.00		Cash In Hand	<u>510325.00</u>	29347014.32
Truba Advance Sciences Kombine	<u>17368849.91</u>	24348069.91			
<b>CURRENT LIABILITIES &amp; PROVISIONS:</b>					
Sundry Creditors for Expenses					
As per Schedule -' A'	<u>1524952.92</u>	1524952.92			
Total:		52394965.29	Total:		52394965.29

As per our Report of even date attached  
For JOSHI VINOD AND COMPANY  
Chartered Accountants

  
**(VINOD JOSHI)**  
 Proprietor      15/1/2021

**Chairman** **Secretary** **Treasurer**  
**CHAIRMAN** **SECRETARY**  
Date: **Truba Advance Sciences Kombine** Truba Advance Sciences Kombine  
Place: **BHOPAL** **BHOPAL**

**9.2.3 Availability of the audited statements on the institute's website (5)**

Institute Marks :

**9.3 Library and Internet**

**It is assumed that zero deficiency report was received by the institution, Effective availability and utilization to be demonstrated. (20)**

Total Marks 20.00

**9.3.1 Quality of learning resources (hard/soft) (10)**

Institute Marks : 10.00

1. Library is automated with software: ERP software

2. Relevance of available learning resources including e-resources:

- No. of volumes: 9084
- No. of titles: 1125
- Newspapers: 05
- Number of Journals subscribed : 33
- National & International e-Journals: 388
- DELNET and National Digital Library membership: Available

3. E-information resources-

- CDs: 63

4. Digital Library

- No. of PCs: 15
- Internet facility available- speed 100 mbps

5. Accessibility to students, faculty and staff: 09.00 am to 4:30 pm



Name of the Internet provider	TATA TELE SERVICES
Available band width	100 MBPS
WiFi availability	YES
Internet access in labs, classrooms, library and offices of all Departments	YES
Security arrangements	Quick Heal Internet Security

**Annexure I****(A) PROGRAM OUTCOME (POs)****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 well-being.

**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.

## Declaration

The head of the institution needs to make a declaration as per the format given -

- 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 inforce as on date and the institutes 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, postvisit and subsequent to grant of accreditation.

**Head of the Institute**

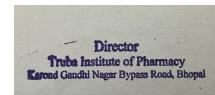
Name : Prof.(Dr.) Surendra Kumar Jain

Designation : Director

Signature :



Seal of The Institution :



Place : Bhopal

Date : 18-03-2023 15:27:48