

## lblSFRRowHeader

Pharmacy

**Part A : Institutional Information****1 Name and Address of the Institution**

Ponda Education Society's Rajaram and Tarabai Bandekar College of Pharmacy,  
Ponda- Panaji Road, Farmagudi, Ponda, Goa-403401

**2 Name and Address of Affiliating University**

Goa University

**3 Year of establishment of the Institution:**

2007

**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 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 checked="" 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               |
|---|-----------------------|---|------------------------|
| Ponda Education Society's Shri Ravi S. Naik Higher Secondary School | 1986                  | Higher Secondary in Arts, Commerce , Science and Vocational Programs                        | Farmagudi, Ponda , Goa |
| Ponda Education Society's Ravi S. Naik College of Arts and Science  | 1986                  | Undergraduate programs in Arts and Science and Post Graduation Program in Organic Chemistry | Farmagudi, Ponda , Goa |
| Ponda Education Society's College of Education                      | 2004                  | Bachelor of Education   | Farmagudi, Ponda , Goa |

**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 |
|---|-----------------------|---------------|------------------------|--------------------------|-----------------|----------------|--------------------------|------|----|---------------------------|----------------------|
| Bachelor of Pharmacy  | UG                    | 2007          | 2007                   | 60                       | Yes             | 100            | Applying first time      | --   | -- | Yes                       | 4                    |
| <b>Sanctioned Intake for Last Five Years for the Bachelor of Pharmacy</b> |                       |               |                        |                          |                 |                |                          |      |    |                           |                      |
| Academic Year   |                       |               |                        | <b>Sanctioned Intake</b> |                 |                |                          |      |    |                           |                      |
| 2021-22   |                       |               |                        | 100                      |                 |                |                          |      |    |                           |                      |
| 2020-21   |                       |               |                        | 100                      |                 |                |                          |      |    |                           |                      |
| 2019-20   |                       |               |                        | 75                       |                 |                |                          |      |    |                           |                      |
| 2018-19   |                       |               |                        | 60                       |                 |                |                          |      |    |                           |                      |
| 2017-18   |                       |               |                        | 60                       |                 |                |                          |      |    |                           |                      |
| 2016-17   |                       |               |                        | 60                       |                 |                |                          |      |    |                           |                      |
| Master of Pharmacy (Pharmaceutical Chemistry)                             | PG                    | 2011          | 2011                   | 18                       | No              | 18             | Eligible but not applied | --   | -- | No                        | 2                    |
| Master of Pharmacy ( Pharmaceutics)                                       | PG                    | 2014          | 2014                   | 18                       | No              | 18             | Eligible but not applied | --   | -- | 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                                    | 2021-22 |     | 2020-21 |     | 2019-20 |     |
|--|---------|-----|---------|-----|---------|-----|
|  | MIN     | MAX | MIN     | MAX | MIN     | MAX |
| Faculty in Pharmacy (Male)               | 06      | 06  | 06      | 06  | 06      | 06  |
| Faculty in Pharmacy (Female)             | 14      | 15  | 14      | 15  | 15      | 15  |
| Faculty in Science & Humanities (Male)   | 0       | 0   | 0       | 0   | 0       | 0   |
| Faculty in Science & Humanities (Female) | 0       | 0   | 0       | 0   | 0       | 0   |
| Non-teaching staff (Male)                | 12      | 12  | 12      | 14  | 14      | 14  |
| Non-teaching staff (Female)              | 19      | 21  | 20      | 20  | 20      | 20  |

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

| Items                                    | 2021-22 |     | 2020-21 |     | 2019-20 |     |
|--|---------|-----|---------|-----|---------|-----|
|  | 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)   | 0       | 0   | 0       | 0   | 0       | 0   |
| Faculty in Science & Humanities (Female) | 0       | 0   | 0       | 0   | 0       | 0   |
| Non-teaching staff (Male)                | 1       | 1   | 0       | 0   | 0       | 0   |
| Non-teaching staff (Female)              | 0       | 0   | 0       | 0   | 0       | 0   |

**10 Total number of Pharmacy students:**

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

**11 Vision of the Institution:**

To be a premier institution imparting quality education in the field of Pharmacy.

**12 Mission of the Institution:**

1. To create an environment that will produce competent pharmacy professionals, catering to the needs of the academia, research, regulators, industry and society.
2. To enhance creativity and innovation in pharmacy education through advanced technical updates that propel the students towards professional excellence.
3. To inspire and sustain the students to be sensitive towards social needs and contribute to the wellbeing of society.

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

| <b>Head of the Institution</b> |                            |
|--------------------------------|----------------------------|
| Name                           | Dr. S.N. Mamle Desai       |
| Designation                    | Professor and Principal    |
| Mobile No.                     | 9845514307                 |
| Email ID                       | smamledesai@rediffmail.com |

 **NBA Coordinator, If Designated**

|             |                              |
|-------------|------------------------------|
| Name        | Dr. Shilpa P. Bhilegaonkar   |
| Designation | Associate Professor          |
| Mobile No.  | 9579744560                   |
| Email ID    | shilpabhilegaonkar@gmail.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         | 159.68          |
| 5            | FACULTY INFORMATION AND CONTRIBUTIONS                     | 175         | 130.49          |
| 6            | FACILITIES  | 120         | 120.00          |
| 7            | CONTINUOUS IMPROVEMENT                                    | 75          | 72.36           |
| 8            | STUDENT SUPPORT SYSTEMS                                   | 50          | 50.00           |
| 9            | GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES | 100         | 100.00          |
|              | <b>Total</b>  | <b>1000</b> | <b>932</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 be a premier institution imparting quality education in the field of Pharmacy.   |   |
| Mission of the institute  | <ol style="list-style-type: none"> <li>1. To create an environment that will produce competent pharmacy professionals, catering to the needs of the academia, research, regulators, industry and society.</li> <li>2. To enhance creativity and innovation in pharmacy education through advanced technical updates that propel the students towards professional excellence.</li> <li>3. To inspire and sustain the students to be sensitive towards social needs and contribute to the wellbeing of society.</li> </ol> |   |
| Vision of the Department  | To be a premier institution imparting quality education in the field of Pharmacy.   |   |
| Mission of the Department | <b>Mission No.</b>  | <b>Mission Statements</b>   |
|                           | M1  | To create an environment that will produce competent pharmacy professionals, catering to the needs of the academia, research, regulators, industry and society. |
|                           | M2  | To enhance creativity and innovation in pharmacy education through advanced technical updates that propel the students towards professional excellence.         |
|                           | M3  | To inspire and sustain the students to be sensitive towards social needs and contribute to the wellbeing of society.  |

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

Total Marks 5.00

| PEO No. | Program Educational Objectives Statements  |
|---------|--|
| PEO1    | Upon completion of the program, the students will be:<br>PEO1: Competent and proficient in all aspects of drug manufacturing and its usage, including practical knowledge towards fulfillment of their career goals. |
| PEO2    | PEO2: Professionals with adequate pharmacy skills and will make a valuable contribution towards pharmacy practice, research and innovations.   |
| PEO3    | PEO3: Able to serve the community and society with high standards of professional ethics and in the best interest of patients and the community.   |

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

Total Marks 15.00

Institute Marks : 15.00

Every effort is made to ensure that Vision, Mission and PEOs of the college are conveyed effectively to all Internal and External stakeholders. The Vision, Mission and PEOs are published and spread widely through the following methods:

**Direct Communication:** Orientation Programmes for fresher students /parents and induction programmes for students.

**Print Media:** College prospectus, College magazine, Placement brochure, Laboratory manuals.

**Display Boards:** Prominent places of college like college entrance, college administrative office, library and every floor in the college.

**Electronic Media:** College website (<https://www.pespharma.com>)

- The students of every semester are briefed about the importance of the Vision, Mission and PEOs.
- The parents are enlightened about the Vision, Mission and PEOs during orientation program and also when they visit the college.
- The external stakeholders are informed about the Vision, Mission and PEOs through college prospectus, college magazine, placement brochure and college website.

**Promulgation of Institute's Vision, Mission and PEOs:**

All the External and Internal stakeholders are intimated about the Vision, Mission and PEOs. The dissemination of the Vision, Mission and PEOs are done as follows:

- Students: Information about the Vision, Mission and PEOs is given during the induction programme. It is displayed prominently at the college entrance and communicated to the students by the faculty members from time to time.
- Parents: Parents are informed via college admission prospectus and during induction programme organized at the time of joining of their ward.
- Faculty: The Vision, Mission and PEOs are communicated to all teaching and non teaching staff members at the time of joining the institution and at the beginning of every academic year.
- Alumni: Alumni members are made aware of the Vision, Mission and PEOs through college website and during alumni meetings and during their visit to college.
- Industry/Regulatory/Academic experts/Employers: The Vision, Mission and PEOs are circulated among the academicians, regulatory authorities and industry experts through admission and placement brochure.
- Professional Bodies: While organizing events under professional bodies, the event brochures are designed to contain the institute's Vision, Mission and PEOs.

**Note :**

| Internal Stakeholders                    | External Stakeholders                       |
|--|---|
| Management and Governing Body of College | Employers<br>(Academia/Industry/Regulatory) |
| Staff members                            | Parents                                     |
| Students                                 | Alumni                                      |
|  | Professional Bodies                         |

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

Total Marks 10.00

Institute Marks : 10.00

The institute finalized the Vision, Mission and PEOs through a consultative process involving the stakeholders of the institute such as Management, Parents, Students, Alumni, Faculty and Employers as shown in Figure 1.1.

In establishing the Vision and Mission of the institute, the following steps were followed:

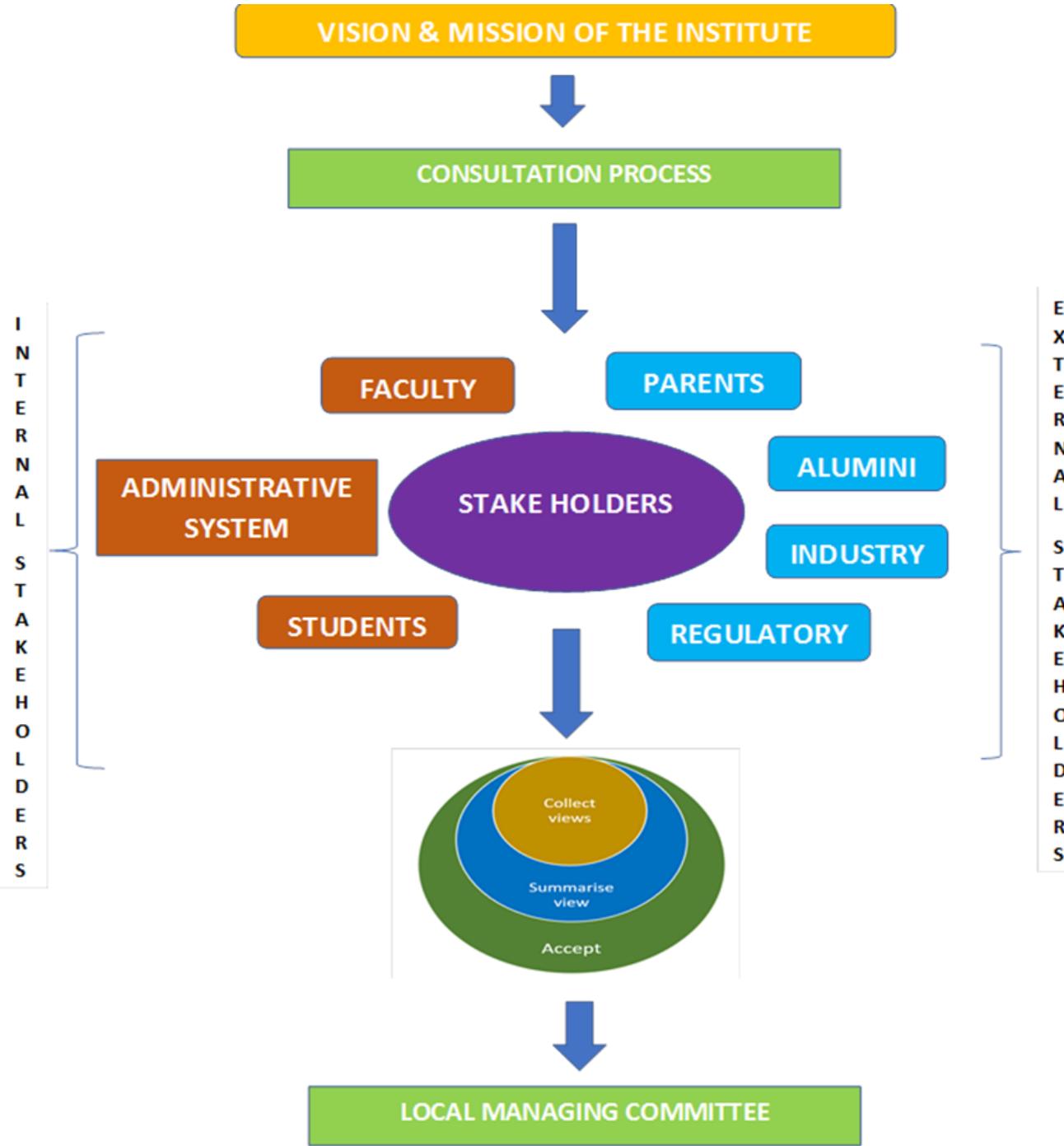
Step 1: Vision and Mission of the institution were taken as an origin.

Step2: Course outcomes and graduates attributes are taken into consideration and opinion was invited from internal and external stakeholders.

Step 3: The expressed views were critically analyzed and reviewed by the Faculty members and Head of the Institution to assess the consistency of the PEOs with the Vision and Mission of the Institute.

Step 4: The proposed Vision, Mission and PEOs were scrutinized by the Local Managing Committee and was further referred to the Governing Council.

Step 5: Governing Council of the institution thereafter approved the Vision, Mission and PEOs and then the Vision, Mission and PEOs were given wide publicity.





## GOVERNING COUNCIL



## VISION, MISSION & PEOs

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

Total Marks 15.00

Institute Marks : 15.00

| PEO Statements  | M1 | M2 | M3 |
|---|----|----|----|
| Upon completion of the program, the students will be: PEO1: Competent and proficient in all aspects of drug manufacturing and its usage, including practical knowledge towards fulfillment of their career goals. | 3  | 2  | 1  |
| PEO2: Professionals with adequate pharmacy skills and will make a valuable contribution towards pharmacy practice, research and innovations.  | 2  | 3  | 1  |
| PEO3: Able to serve the community and society with high standards of professional ethics and in the best interest of patients and the community.  | 2  | 1  | 3  |

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

Total Marks 150.00

### 2.1 Program Curriculum (40)

Total Marks 40.00

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

Institute Marks : 10.00

The B. Pharm. programme of the institution was based upon the semester pattern of Goa University syllabus implemented in the year 2011-12. The B. Pharm. programme framed by Pharmacy Council of India is a choice-based credit system adopted by Goa University in the academic year 2017-2018, a four-year degree program divided into 08 semesters. The curriculum consists of 4 hours of theory (3 hours of lecture + 1 hour of tutorial) per week with 4 credits and 4 hours per week with the credit point of 2 for practicals. The scheme specifies a duration of three hours for theory and 4 hours for the practicals for the end semester examinations.

**As per the curriculum:** Each student will be evaluated for a continuous mode based on their daily active participation in theory and practical classes.

As per CBCS curriculum of Goa University the end semester theory examinations shall be of 75 marks and internal examination along with the continuous assessment of 25 marks (15+10 marks each).

The end semester practical examinations in the respective course shall be of 35 marks and internal examination along with continuous assessment of 15 marks (10+ 5 marks each).

Course completion shall be at the end of semester examination.

For the partial fulfilment of the requirements for the completion of B. Pharm. course, every candidate shall work for atleast 150 hours spread over period of four weeks in a Pharmaceutical Industry/Hospital/Community Pharmacy. It includes Production department, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc before the commencement of Semester – VII, and shall submit satisfactory report of such work and produce a duly signed certificate by the authority of training organization to the head of the institution.

Program outcome attainments are based on the satisfactory completion of the course of eight semesters.

**Contents of Syllabus – Courses and Modes of Teaching.****Syllabus 2021-22****Semester I B. Pharm**

| Course Code | Course Title                                  | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes (POs) |
|-------------|---|-------------------------------|----------|-----------|-------|---------------|------------------------|
|             |   | Lecture                       | Tutorial | Practical | Total |               |                        |
| BP101T      | Human Anatomy and Physiology-I - Theory       | 3                             | 1        | -         | 45    | 4             | 1,4,6,8,<br>9,11       |
| BP102T      | Pharmaceutical Analysis -Theory               | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>11         |
| BP103T      | Pharmaceutics - Theory                        | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,9,11   |
| BP104T      | Pharmaceutical Inorganic Chemistry -Theory    | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,9,11     |
| BP105T      | Communication Skills -Theory*                 | 2                             |          | -         | 30    | 2             | 1,2,4,<br>5,8,11       |
| BP106RBT    | Remedial Biology -Theory                      | 2                             | -        | -         | 30    | 2             | 1,2,5,<br>9,11         |
| BP106RMT    | Remedial Mathematics - Theory                 | 2                             | -        | -         | 30    | 2             | 1,2,8,11               |
| BP107P      | Human Anatomy and Physiology-I - Practical    | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>6,8,9,11   |
| BP108P      | Pharmaceutical Analysis -Practical            | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,11       |
| BP109P      | Pharmaceutics - Practical                     | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,11       |
| BP110P      | Pharmaceutical Inorganic Chemistry -Practical | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>11         |
| BP111P      | Communication Skills -Practical*              |                               |          | 2         |       | 1             | 2,3,5,8,<br>11         |
| BP112RBP    | Remedial Biology - Practical*                 | -                             | -        | 2         |       | 1             | 1,2,4,6,<br>8,9,11     |

**Semester II B. Pharm.**

| Course Code | Course Title | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes (POs) |
|-------------|--------------|-------------------------------|----------|-----------|-------|---------------|------------------------|
|             |              | Lecture                       | Tutorial | Practical | Total |               |                        |

|        |  |   |   |   |    |   |                            |
|--------|--|---|---|---|----|---|----------------------------|
| BP201T | Human Anatomy and Physiology II -Theory        | 3 | 1 | - | 45 | 4 | 1,3,4,6,<br>8,9,11         |
| BP202T | Pharmaceutical Organic Chemistry I - Theory    | 3 | 1 | - | 45 | 4 | 1,2,3,6,<br>10,11          |
| BP203T | Biochemistry - Theory                          | 3 | 1 | - | 45 | 4 | 1,4,6,8,<br>9,11           |
| BP204T | Pathophysiology - Theory                       | 3 | 1 | - | 45 | 4 | 1,2,3,4,<br>6,9,11         |
| BP205T | Computer Application in Pharmacy - Theory      | 3 | - | - | 45 | 3 | 1,2,3,4,<br>6,7,8,9,<br>11 |
| BP206T | Environmental Science - Theory*                | 3 | - | - |    | 3 | 1,3,5,8,<br>9,10,11        |
| BP207P | Human Anatomy and Physiology II - Practical    | - | - | 4 |    | 2 | 1,2,3,6,<br>8,9,11         |
| BP208P | Pharmaceutical Organic Chemistry I - Practical | - | - | 4 |    | 2 | 2,3,2,<br>1,1,1,2          |
| BP209P | Biochemistry - Practical                       | - | - | 4 |    | 2 | 1,2,3,4,<br>6,8,11         |
| BP210P | Computer Application in Pharmacy - Practical   | - | - | 2 |    | 1 | 2,4,8,<br>9,11             |

**Semester III B. Pharm.**

| Course Code | Course Title                                   | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes (POs) |
|-------------|--|-------------------------------|----------|-----------|-------|---------------|------------------------|
|             |  | Lecture                       | Tutorial | Practical | Total |               |                        |
| BP301T      | Pharmaceutical Organic Chemistry II - Theory   | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,10,11    |
| BP302T      | Physical Pharmaceutics I - Theory              | 3                             | 1        | -         | 45    | 4             | 1,2,3,4<br>,8,11       |
| BP303T      | Pharmaceutical Microbiology - Theory           | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,9,10,11  |
| BP304T      | Pharmaceutical Engineering - Theory            | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>5,9,10,11  |
| BP305P      | Pharmaceutical Organic Chemistry II- Practical | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,11       |

|        |   |   |   |   |  |   |                       |
|--------|---|---|---|---|--|---|-----------------------|
| BP306P | Physical Pharmaceutics I - Practical    | - | - | 4 |  | 2 | 1,2,3,4,<br>6,8,11    |
| BP307P | Pharmaceutical Microbiology - Practical | - | - | 4 |  | 2 | 1,2,3,4,<br>6,9,10,11 |
| BP308P | Pharmaceutical Engineering- Practical   | - | - | 4 |  | 2 | 1,2,3,4,<br>6,8,11    |

**Semester IV B. Pharm.**

| Course Code | Course Title                                  | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes (POs) |
|-------------|---|-------------------------------|----------|-----------|-------|---------------|------------------------|
|             |   | Lecture                       | Tutorial | Practical | Total |               |                        |
| BP401T      | Pharmaceutical Organic Chemistry III - Theory | 3                             | 1        | -         | 45    | 4             | 1,3,4,8,<br>9,10,11    |
| BP402T      | Medicinal Chemistry I - Theory                | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,10,11  |
| BP403T      | Physical Pharmaceutics II - Theory            | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11       |
| BP404T      | Pharmacology I - Theory                       | 3                             | 1        | -         | 45    | 4             | 1,2,3,6,<br>8,9,11     |
| BP405T      | Pharmacognosy and Phytochemistry I - Theory   | 3                             | 1        | 4         |       | 4             | 1,2,3,4,<br>6,8,10,11  |
| BP406P      | Medicinal Chemistry I - Practical             | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,10,11    |
| BP407P      | Physical Pharmaceutics II - Practical         | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,11       |
| BP408P      | Pharmacology I - Practical                    | -                             | -        | 4         |       | 2             | 1,2,3,5,<br>6,9,11     |
| BP409P      | Pharmacognosy and Phytochemistry I -Practical | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>6,8,11     |

**Semester V B. Pharm.**

| Course Code | Course Title                    | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes            |
|-------------|---------------------------------|-------------------------------|----------|-----------|-------|---------------|-----------------------------|
|             |                                 | Lecture                       | Tutorial | Practical | Total |               |                             |
| BP501T      | Medicinal Chemistry II - Theory | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,9,10,<br>11 |

|        |   |   |   |   |    |   |                        |
|--------|---|---|---|---|----|---|------------------------|
| BP502T | Industrial Pharmacy I - Theory                  | 3 | 1 | - | 45 | 4 | 1,2,3,4,<br>8,11       |
| BP503T | Pharmacology II- Theory                         | 3 | 1 | - | 45 | 4 | 1,3,6,8,<br>9,11       |
| BP504T | Pharmacognosy and Phytochemistry II - Theory    | 3 | 1 | - | 45 | 4 | 1,2,3,4,<br>6,8,9,11   |
| BP505T | Pharmaceutical Jurisprudence - Theory           | 3 | 1 | - | 45 | 4 | 1,2,3,4,<br>6,7,8,9,11 |
| BP506P | Industrial Pharmacy I - Practical               | - | - | 4 |    | 2 | 1,2,3,4,<br>6,8,11     |
| BP507P | Pharmacology II- Practical                      | - | - | 4 |    | 2 | 1,2,3,4,<br>6,8,9,11   |
| BP508P | Pharmacognosy and Phytochemistry II - Practical | - | - | 4 |    | 2 | 1,2,3,4,<br>6,8,9,11   |

**Semester VI B. Pharm.**

| Course Code | Course Title                                | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes      |
|-------------|---|-------------------------------|----------|-----------|-------|---------------|-----------------------|
|             |   | Lecture                       | Tutorial | Practical | Total |               |                       |
| BP601T      | Medicinal Chemistry III - Theory            | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,9,11  |
| BP602T      | Pharmacology III- Theory                    | 3                             | 1        | -         | 45    | 4             | 1,3,6,8,<br>9,11      |
| BP603T      | Herbal Drug Technology - Theory             | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,9,11  |
| BP604T      | Biopharmaceutics and Pharmaceutics - Theory | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,9,11  |
| BP605T      | Pharmaceutical Biotechnology - Theory       | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>6,8,10,11 |
| BP606T      | Pharmaceutical Quality Assurance - Theory   | -                             | -        | 2         |       | 4             | 1,2,3,6,<br>7,8,9,11  |
| BP607P      | Medicinal Chemistry III - Practical         | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,10,11   |
| BP608P      | Pharmacology III- Practical                 | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,9,11    |

|        |                                    |   |   |   |  |   |                             |
|--------|------------------------------------|---|---|---|--|---|-----------------------------|
| BP609P | Herbal Drug Technology - Practical | - | - | 4 |  | 2 | 1,2,3,4,<br>6,8,9,10,<br>11 |
|--------|------------------------------------|---|---|---|--|---|-----------------------------|

**Semester VII B. Pharm.**

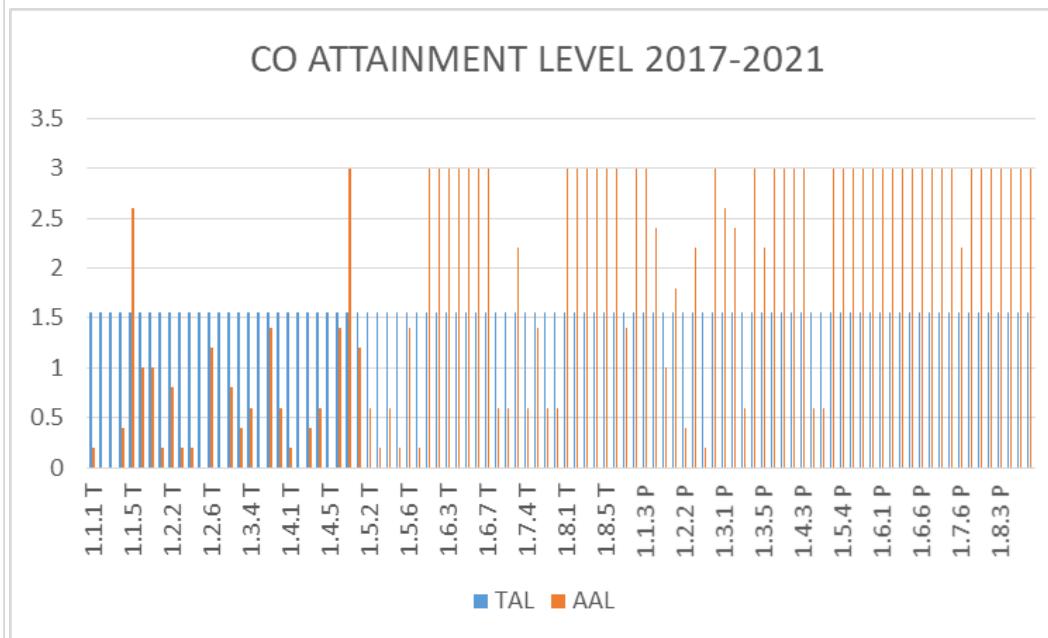
| Course Code | Course Title                                | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes |
|-------------|---|-------------------------------|----------|-----------|-------|---------------|------------------|
|             |   | Lecture                       | Tutorial | Practical | Total |               |                  |
| BP701T      | Instrumental Methods of Analysis - Theory   | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11 |
| BP702T      | Industrial pharmacy II -Theory              | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11 |
| BP703T      | Pharmacy Practice - Theory                  | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11 |
| BP704T      | Novel Drug Delivery System- Theory          | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11 |
| BP705P      | Instrumental Method of Analysis - Practical | -                             | -        | 4         |       | 2             | 1,2,3,4,<br>8,11 |
| BP706PS     | Practice School*                            |                               |          |           | 12    | 6             | 1,2,3,4,<br>8,11 |

**Semester VIII B. Pharm.**

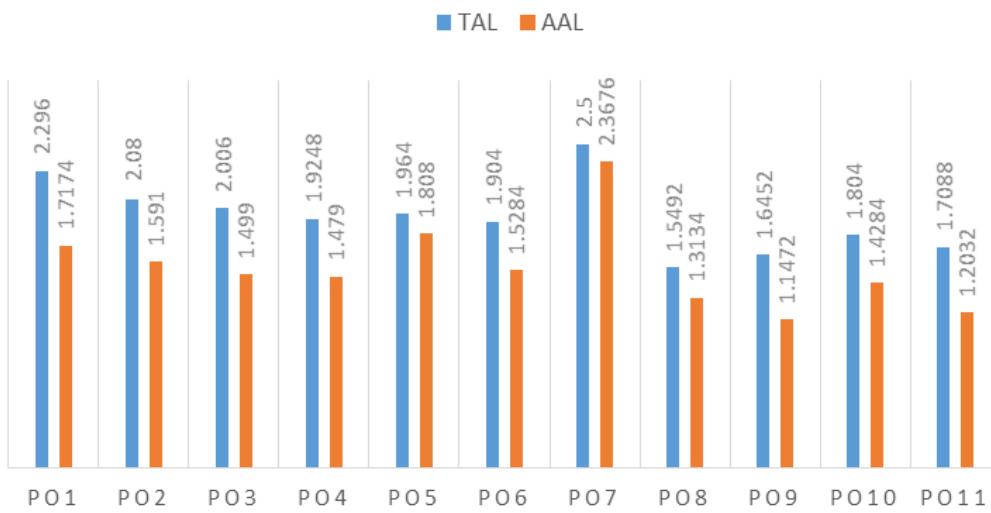
| Course Code | Course Title                                   | Total Number of Contact Hours |          |           |       | Credit Points | Program Outcomes       |
|-------------|--|-------------------------------|----------|-----------|-------|---------------|------------------------|
|             |  | Lecture                       | Tutorial | Practical | Total |               |                        |
| BP801T      | Biostatics and Research Methodology - Theory   | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11       |
| BP802T      | Social and Preventive Pharmacy                 | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,<br>8,11       |
| BP803ET     | Pharmaceutical Marketing Management            | 3                             | 1        | -         | 45    | 4             | 1,2,3,4,6,7, 8,9,10,11 |
| BP804ET     | Pharmaceutical Regulatory Science              | 3                             | 1        | -         | 45    | 4             | --                     |
| BP805ET     | Pharmacovigilance                              | 3                             | 1        | -         | 45    | 4             |                        |
| BP806ET     | Quality Control and Standardization of Herbals | 3                             | 1        | -         | 45    | 4             |                        |
| BP807ET     | Computer Aided Drug Development                | 3                             | 1        | -         | 45    | 4             |                        |
| BP808ET     | Cell and Molecular Biology                     | 3                             | 1        | -         | 45    | 4             |                        |
| BP809ET     | Cosmetic Science                               | 3                             | 1        | -         | 45    | 4             |                        |
| BP810ET     | Pharmacological Screening Methods              | 3                             | 1        | -         | 45    | 4             |                        |
| BP811ET     | Advanced Instrumentation Techniques            | 3                             | 1        | -         | 45    | 4             |                        |

|         |                                       |   |   |   |    |   |                                |
|---------|---------------------------------------|---|---|---|----|---|--------------------------------|
| BP812ET | Dietary Supplements and Nutraceutical | 3 | 1 | - | 45 | 4 |                                |
| BP813ET | Pharmaceutical Product Development    | 3 | 1 | - | 45 | 4 | 1,2,3,4,<br>8,11               |
| BP814ET | Project Work                          | - | - | - | 12 | 6 | 1,2,3,4,<br>6,7, 8,<br>9,10,11 |

Based on the results, course outcomes are evaluated for each course at the end of the semester. Program outcomes are evaluated by direct and indirect methods of assessment for each academic batch of the program.

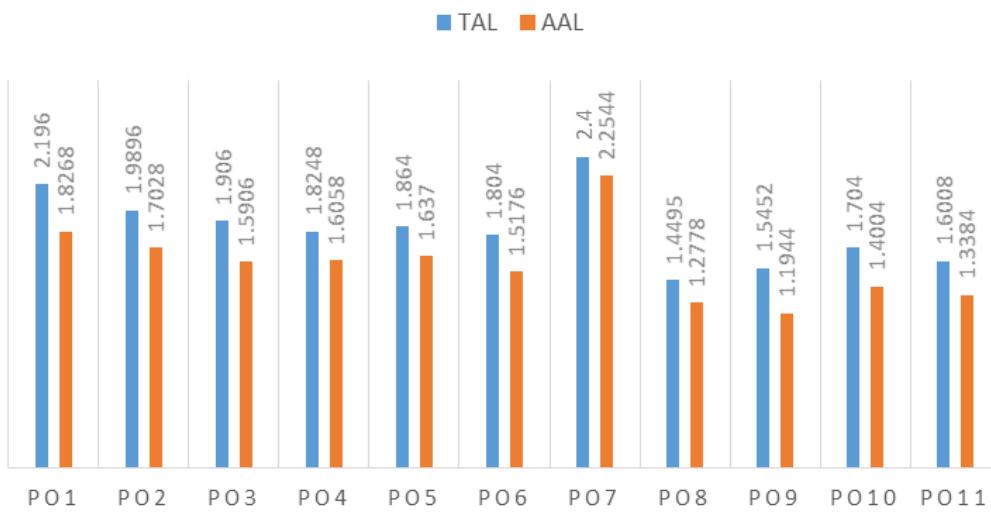


## PO ATTAINMENT LEVEL 2017-2021

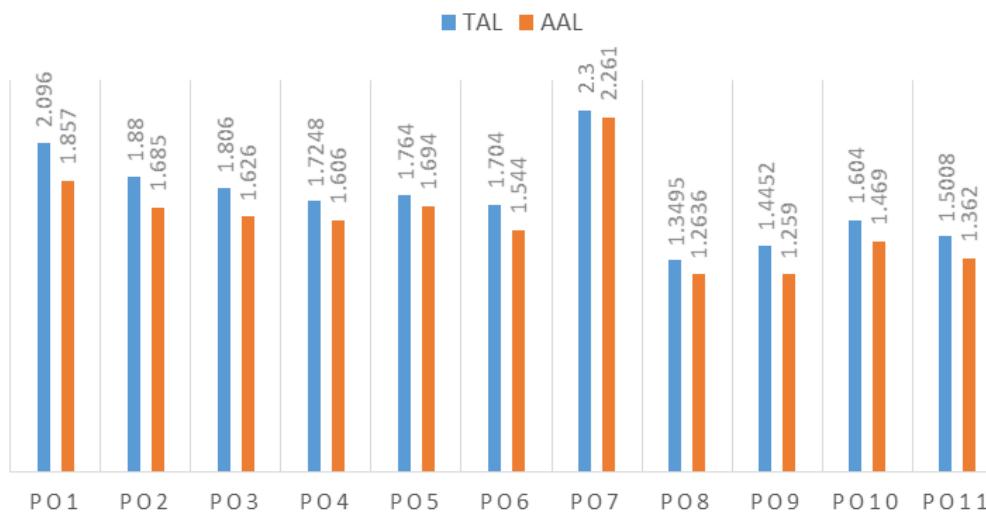


Similarly the program outcomes were calculated for previous two batches ( LYGm1,LYGm2) and is shown in following graphs-

## PO ATTAINMENT LEVEL 2016-2020



## PO ATTAINMENT 2015-2019



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

Institute Marks : 20.00

2021-22

| S.No | Gap            | Action Taken    | Date-Month-Year | Resource Person with Designation            | No of students Present | Relevance to POs |
|------|----------------|-----------------|-----------------|---|------------------------|------------------|
| 1    | Awareness abc  | Guest lecture c | 10/07/2021      | Mr Girish Kulkarni (Associate Professor)    | 136                    | PO1, PO6, PO     |
| 2    | Knowledge of c | Guest lecture c | 24/07/2021      | Mr Durgesh Pai Angle (General Manager)      | 128                    | PO5, PO11        |
| 3    | Knowledge of c | Guest lecture c | 30/07/2021      | Ms Siya Kunde (Executive, Marketing)        | 126                    | PO5, PO11        |
| 4    | Guidance with  | Guest lecture c | 25/09/2021      | Mr Aakash Nathani (NIPER)                   | 105                    | PO1,PO11         |
| 5    | Patient Counse | Guest lecture c | 13/02/2022      | Dr Anant Suryawanshi (MBBS, PGDCH)          | 132                    | PO1,PO6, PO7     |
| 6    | Advanced Tech  | Guest lecture c | 11/04/2022      | Dr. (Mrs.) Akshada Amit Kothari             | 175                    | PO1,PO2,PO3      |
| 7    | Advanced Tech  | Guest lecture c | 11/04/2022      | Dr Manjunath Katagi (Associate Professor)   | 110                    | PO1,PO2,PO3      |
| 8    | Knowledge of c | Guest lecture c | 29/04/2022      | Mr Ravindra Sardessai (Associate Professor) | 168                    | PO1,PO11         |

2020-21

| S.No | Gap              | Action Taken    | Date-Month-Year | Resource Person with Designation         | No of students Present | Relevance to POs |
|------|------------------|-----------------|-----------------|--|------------------------|------------------|
| 1    | Practical Applic | Guest lecture c | 13/02/2021      | Mr. Mangesh Sahane (General Manager)     | 18                     | PO1,PO2,PO3      |
| 2    | Overview of Re   | Guest lecture c | 26/02/2021      | Mr. Soham Sagar (Senior Sales Executive) | 18                     | PO1,PO11         |
| 3    | Role of Pharm:   | Guest lecture c | 13/06/2021      | Mr. Mahesh Zagade (Former Manager)       | 136                    | PO1,PO5, PO6     |
| 4    | Problems asso    | Guest lecture c | 26/06/2021      | Prof (Dr) Ashish Baldi (MRSE)            | 130                    | PO6, PO7, PO     |

2019-20

| S.No | Gap              | Action Taken    | Date-Month-Year | Resource Person with Designation                | No of students Present | Relevance to POs |
|------|------------------|-----------------|-----------------|---|------------------------|------------------|
| 1    | Knowledge of c   | Guest lecture c | 02/08/2019      | Mr. Rahul Pandit (Deputy Manager)               | 112                    | PO1, PO5, PO     |
| 2    | Knowledge of c   | Guest lecture c | 06/12/2019      | Ms. Luven Rodrigues (Senior Sales Executive)    | 39                     | PO1, PO4, PC     |
| 3    | Importance of c  | Guest lecture c | 04/01/2020      | Mr. Himank Narvekar (Researcher)                | 72                     | PO1, PO2, PO     |
| 4    | Insights in diss | Guest lecture c | 24/02/2020      | Dr. Umesh Banakar, (Professor)                  | 113                    | PO1, PO4         |
| 5    | How to detect i  | Guest lecture c | 18/03/2020      | Mrs. Prayangi V. Matonkar (Associate Professor) | 15                     | PO7, PO11        |

## 2.1.3 Adherence to Academic Calendar (10)

Institute Marks : 10.00

Academic calendar is prepared in order to streamline the academic, co-curricular and extracurricular activities for the respective year in accordance to the academic calendar of Goa University. The Internal Quality Assurance Cell along with other committees under the guidance of the Head of the institution (Principal) prepares academic calendar.

The institutional academic calendar gives the dates for conduct of internal assessment examinations in theory and practicals, sports and cultural events which are planned in accordance with Goa University academic calendar. The designated dates of University exams are subject to change as per Goa University circulars issued from time to time.

**P.E.S's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY FARMAGUDI-  
PONDA GOA.**

**ADHERENCE TO ACADEMIC CALENDAR 2019-20**

**ODD SEMESTER (JULY –DECEMBER 2019)**

| SR.NO | EVENTS  | Planned Dates   | Adherence |
|-------|---|---|-----------|
| 1     | Vana Mahotsav   | 27 <sup>th</sup> July 2019                              | Yes       |
| 2     | Induction Programme for B. Pharm & M. Pharm                             | 1 <sup>st</sup> August 2019                             | Yes       |
| 3     | Freshers Day/Magazine release   | 30 <sup>th</sup> August 2019                            | Yes       |
| 4     | Ganesh Chaturthi Vacation   | 2 <sup>nd</sup> – 7 <sup>th</sup> September 2019        | Yes       |
| 5     | Teachers' Day celebration   | 13 <sup>th</sup> September 2018                         | Yes       |
| 6     | First year B.Pharm (Sem I & III) Internal exam – I (theory & practical) | 23 <sup>rd</sup> September 2019 onwards                 | Yes       |
| 7     | Dandiya   | 7 <sup>th</sup> October 2019                            | Yes       |
| 8     | Inspire   | 11 <sup>th</sup> October 2019                           | Yes       |
| 9     | Industrial visit  | 2 <sup>nd</sup> week October 2019                       | Yes       |
| 10    | Internal Theory& Practical Exam (all semesters I, III, V and VII)       | 14 <sup>th</sup> October 2019 onwards                   | Yes       |
| 11    | First year Pharm (Sem I) Internal exam – I (theory & practical)         | 14 <sup>th</sup> October 2019 onwards                   | Yes       |
| 12    | National Pharmacy Week  | 20 <sup>th</sup> -26 <sup>th</sup> October 2019         | Yes       |
| 13    | Diwali Vacation   | 26 <sup>th</sup> October -2 <sup>nd</sup> November 2019 | Yes       |
| 14    | First year M.Pharm (Sem I) Internal exam – II (theory & practical)      | 2 <sup>nd</sup> December 2019 onwards                   | Yes       |

## EVEN SEMESTER (JANUARY – JUNE 2020)

| SR.NO | EVENTS  | Planned Dates  | Adherence |
|-------|---|--|-----------|
| 1     | Blood Donation Camp   | 2 <sup>nd</sup> week January 2020                                | Yes       |
| 2     | Industrial Visit  | 2 <sup>nd</sup> Week January 2020                                | Yes       |
| 3     | First year Pharm (Sem II & IV)<br>Internal exam – I (theory & practical)            | 17 <sup>th</sup> February 2020 onwards                           | Yes       |
| 4     | Radicals  | 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , March 2020 | Yes       |
| 5     | Sports Day  | 5 <sup>th</sup> 6 <sup>th</sup> , 7 <sup>th</sup> , March 2020   | Yes       |
| 6     | Annual Day & Farewell   | 4 <sup>th</sup> Week March 2020                                  | Yes       |
| 7     | Internal Theory & <del>Practicals</del> Exam<br>(all semesters II, IV, VI and VIII) | 15 <sup>th</sup> April 2020 onwards                              | Yes       |
| 8     | First year M.Pharm (Sem II) Internal<br>exam – I (theory & practical)               | 15 <sup>th</sup> April 2020 onwards                              | Yes       |
| 9     | First year M.Pharm (Sem II) Internal<br>exam – II (theory & practical)              | 25 <sup>th</sup> May 2020 onwards                                | Yes       |

### P.E. S's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY

FARMAGUDI- PONDA GOA

### ADHERENCE TO ACADEMIC CALENDAR 2020-2021

| SR.<br>No. | EVENTS                                   | Planned Dates                                   | Adherence                                 |     |
|------------|--|---|---|-----|
| 1          | Vanamohatsav                             | 4 <sup>th</sup> June 2020                       | Yes                                       |     |
| 2          | Ganesh Chaturthi Vacation                | 21 <sup>st</sup> Aug -26 <sup>th</sup> Aug 2020 | Yes                                       |     |
| 3          | Students Day                             | 15/10/2020                                      | Yes                                       |     |
| 4          | Ozone Day                                | 16/10/2020                                      | Yes                                       |     |
| 5          | First Internal B. Pharm<br>Exam Sem III  | 26/10/2020 –<br>29/10/2020<br>(theory)          | 02/11/2020 –<br>06/11/2020<br>(Practical) | Yes |
| 6          | First Internal B. Pharm<br>Exam Sem V    | 26/10/2020 –<br>31/10/2020<br>(theory)          | 02/11/2020 –<br>06/11/2020<br>(Practical) | Yes |
| 7          | National Pharmacy Week                   | 16 <sup>th</sup> -22 <sup>nd</sup> Nov 2020     | Yes                                       |     |
| 8          | Diwali Vacation                          | 14 <sup>th</sup> -21 <sup>st</sup> Nov 2020     | Yes                                       |     |
| 9          | Second Internal B. Pharm<br>Exam Sem III | 07/12/2020 –<br>10/12/2020<br>(theory)          | 14/12/2020 –<br>18/12/2020<br>(Practical) | Yes |
| 10         | Second Internal B. Pharm<br>Exam Sem V   | 07/12/2020 –<br>11/12/2020<br>(theory)          | 14/12/2020 –<br>18/12/2020<br>(Practical) | Yes |
| 11         | First Internal M. Pharm<br>Exam Sem I    | 07/12/2020 –<br>10/12/2020<br>(theory)          | 14/12/2020<br>(Practical)                 | Yes |
|            |  | 14/12/2020 –                                    | 07/12/2020 –                              |     |
|            |  |   | Yes                                       |     |

|    |                                     |  |   |     |
|----|-------------------------------------|--|---|-----|
| 12 | internal B. Pharm Exam Sem VII      | 22/12/2020<br>(theory)                 | 12/12/2020<br>(Practical)                 |     |
| 13 | End Semester B. Pharm Exam Sem VII  | 18/01/2021 –<br>30/01/2021<br>(theory) | 01/02/2021 –<br>06/02/2021<br>(Practical) | Yes |
| 14 | Induction Programme                 | 15/01/2020                             |   | Yes |
| 15 | First Internal B. Pharm Exam Sem I  | 25/01/2021 –<br>01/02/2021<br>(theory) | 23/01/2021 –<br>05/02/2021<br>(Practical) | Yes |
| 16 | Second Internal M. Pharm Exam Sem I | 25/01/2021 –<br>29/01/2021<br>(theory) | 08/02/2021<br>(Practical)                 | Yes |
| 17 | Second Internal B. Pharm Exam Sem I | 22/02/2021 –<br>01/03/2021<br>(theory) | 27/02/2021 –<br>09/03/2021<br>(Practical) | Yes |
| 18 | Women's Day                         | 08/03/2021                             |   | Yes |
| 19 | End Semester B. Pharm Exam Sem V    | 08/03/2021 –<br>13/03/2021<br>(theory) | 15/03/2021 –<br>22/03/2021<br>(Practical) | Yes |
| 20 | End Semester B. Pharm Exam Sem III  | 15/03/2021 –<br>18/03/2021<br>(theory) | 24/03/2021 –<br>06/04/2021<br>(Practical) | Yes |

|    |                                      |  |   |
|----|--------------------------------------|--|---|
| 21 | World health day                     | 07/04/2021                             | Yes                                       |
| 22 | End Semester B. Pharm Exam Sem I     | 20/04/2021 –<br>23/04/2021<br>(theory) | Yes                                       |
| 23 | First Internal M. Pharm Exam Sem II  | 07/06/2021 –<br>10/06/2021<br>(theory) | Yes                                       |
| 24 | First Internal B. Pharm Exam Sem IV  | 07/06/2021 –<br>11/06/2021<br>(theory) | 12/07/2021 –<br>15/07/2021<br>(Practical) |
| 25 | Internal B. Pharm Exam Sem VII       | 07/06/2021 –<br>12/06/2021<br>(theory) | 05/07/2021 –<br>13/07/2021<br>(Practical) |
| 26 | First Internal B. Pharm Exam Sem VI  | 05/07/2021 –<br>10/07/2021<br>(theory) | 12/07/2021 –<br>14/07/2021<br>(Practical) |
| 27 | Second Internal M. Pharm Exam Sem II | 19/07/2021 –<br>23/07/2021<br>(theory) | Yes                                       |
| 28 | Second Internal B. Pharm Exam Sem IV | 26/07/2021 –<br>30/07/2021<br>(theory) | 02/08/2021 –<br>05/08/2021<br>(Practical) |
| 29 | First Internal B. Pharm Exam Sem II  | 05/07/2021 –<br>10/07/2021             | 12/07/2021 –<br>15/07/2021                |

|    |                                      | (theory)                               | (Practical)                               |     |
|----|--------------------------------------|--|---|-----|
| 30 | World Yoga Day                       | 21/07/2021                             |   | Yes |
| 31 | World Youth Day                      | 12/08/2021                             |   | Yes |
| 32 | Second Internal B. Pharm Exam Sem VI | 13/08/2021 –<br>21/08/2021<br>(theory) | 18/08/2021 –<br>20/08/2021<br>(Practical) | Yes |
| 33 | End Semester B. Pharm Exam Sem VIII  | 02/08/2021 –<br>07/08/2021<br>(theory) | 11/08/2021 –<br>17/08/2021<br>(Practical) | Yes |
| 34 | End Semester B. Pharm Exam Sem VI    | 23/08/2021 –<br>28/08/2021<br>(theory) | 30/08/2021 –<br>02/09/2021<br>(Practical) | Yes |
| 35 | End Semester B. Pharm Exam Sem IV    | 30/08/2021 –<br>03/09/2021<br>(theory) | 04/09/2021 –<br>08/09/2021<br>(Practical) | Yes |
| 36 | Second Internal B. Pharm Exam Sem II | 01/09/2021 –<br>04/09/2021<br>(theory) | 06/09/2021 –<br>09/09/2021<br>(Practical) | Yes |
| 37 | Pharmacist Day                       | 25/09/2021                             |   | Yes |
| 38 | End Semester B. Pharm Exam Sem II    | 20/09/2021 –<br>23/09/2021<br>(theory) | 27/09/2021 –<br>05/10/2021<br>(Practical) | Yes |
| 39 | End semester M. Pharm Exam Sem II    | 21/09/2021 –<br>24/09/2021<br>(theory) | 27/09/2021<br>(Practical)                 | Yes |

**P. E. S's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY**  
**FARMAGUDI- PONDA GOA**

**ADHERANCE TO ACADEMIC CALENDER 2021-2022**

| <b>Sr.No</b> | <b>Events</b>                         | <b>Planned Dates</b>                                  |   | <b>Adherence</b> |
|--------------|---------------------------------------|---|---|------------------|
| 1            | Vanamohatsav                          | 16 <sup>th</sup> Jun 2021                             |   | Yes              |
| 2            | Ganesh Chaturthi Vacation             | 10 <sup>th</sup> – 17 <sup>th</sup> Sept 2021         |   | Yes              |
| 3            | Diwali Vacation                       | 1 <sup>st</sup> – 6 <sup>th</sup> Nov 2021            |   | Yes              |
| 4            | National Pharmacy Week                | 21 <sup>st</sup> -27 <sup>th</sup> Nov 2021           |   | Yes              |
| 5            | First Internal B. Pharm Exam Sem V    | 11/12/2021 –<br>22/12/2021<br>Theory                  | 13/12/2021 –<br>16/12/2021 Practical    | Yes              |
| 6            | First Internal B. Pharm Exam Sem VII  | 13/12/2021 –<br>16/12/2021<br>Theory                  | 17/12/2021<br>Practical                 | Yes              |
| 7            | First Internal B. Pharm Exam Sem III  | 14/12/2021 –<br>17/12/2021<br>Theory                  | 18/12/2021 –<br>22/12/2021 Practical    | Yes              |
| 8            | Christmas Vacation                    | 24 <sup>th</sup> Dec 2021 – 01 <sup>st</sup> Jan 2022 |   | Yes              |
| 9            | Second Internal B. Pharm Exam Sem VII | 10/01/2022 –<br>13/01/2022<br>Theory                  | 14/01/2022<br>Practical                 | Yes              |
| 10           | Induction programme Sem I B. Pharm    | 30 <sup>th</sup> Oct 2021                             |   | Yes              |
| 11           | First Internal M. Pharm Exam Sem III  | 04/01/2022 Theory                                     |   | Yes              |
| 12           | First Internal M. Pharm Exam Sem I    | 12/01/2022 –<br>15/01/2022<br>Theory                  | 10/01/2022 –<br>11/01/2022<br>Practical | Yes              |
| 13           | Second Internal B. Pharm Exam Sem V   | 14/01/2022 –<br>22/01/2022<br>Theory                  | 17/01/2022 –<br>19/01/2022<br>Practical |                  |
| 14           | First Internal B. Pharm Exam Sem I    | 20/01/2022 –<br>27/01/2022<br>Theory                  | 28/01/2022 –<br>04/02/2022<br>Practical |                  |

|                                      |                                       |                                |                                   |     |
|--------------------------------------|---------------------------------------|--------------------------------|-----------------------------------|-----|
| 15                                   | Second Internal B. Pharm Exam Sem III | 21/01/2022 – 31/01/2022 Theory | 24/01/2022 – 28/01/2022 Practical |     |
| 16                                   | Second Internal M. Pharm Exam Sem III | 08/03/2022 Theory              |                                   |     |
| 17                                   | Second Internal M. Pharm Exam Sem I   | 05/03/2022- 09/03/2022 Theory  | 28/02/2022 Practical              |     |
| 18                                   | Second Internal B. Pharm Sem I        | 11/03/2022- 19/03/2022         | 21/03/2022- 26/03/2022            | Yes |
| <b>Commencement of Even Semester</b> |                                       |                                |                                   |     |
| 19                                   | Freshers party 2021-                  | 2 <sup>nd</sup> May 2022       |                                   | Yes |

|    |   |                               |                                  |     |
|----|---|-------------------------------|----------------------------------|-----|
|    | 2022  |                               |                                  |     |
| 20 | Sport Days  | 04/05/2022-05/05/2022         |                                  | Yes |
| 21 | Radicals 2022   | 07/05/2022-10/05/2022         |                                  | Yes |
| 22 | First Internal Exam of B Pharm Sem IV, Sem V and Sem VIII | 16/05/2022- 21/05/2022 Theory | 23/05/2022- 26/05/2022 Practical | Yes |
| 23 | Annual Day  | 4 <sup>th</sup> Week May 2021 |                                  |     |

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GOA UNIVERSITY

Taligao Plateau, Goa 403 206.

(Established by State Legislature by Notification No. LD/10/7/84(D) of the year 1984)

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Ref.No.: GU/COLG/ACAD TERMS/2019-20/2019/ 3775 Date : 29/03/2019

CIRCULAR

Principal of the concerned colleges are hereby informed that the Academic Terms (Calander) for the Academic year 2019-2020 for the following programs shall be as follows:

| Sr. No | Program  | FIRST SEMESTER/TERM |            | SECOND SEMESTER/TERM  |              | VACATION/BREAK |   |                         |            |               |
|--------|--|---------------------|------------|---|--------------|----------------|---|-------------------------|------------|---------------|
|        |  | Commencement        | End        | Commencement of Examination   | Commencement | End            | Commencement of Examination   | Type of vacation/ Break | From       | To            |
| 1      | B.Pharm (Semester)   | 01.07.2019          | 22.11.2019 | 25.11.2019 Sem. I/II/VI/VII Repeat Exam for Sem. II/IV/VI/VII) 08.11.2019 | 02.01.2020   | 19.05.2020     | 20.05.2020 (Sem.II & VIII) Regular Exam for Sem. IV* & VI* and (Repeat exam for Sem. I/III/V/VII) from 11.05.2020 | Chaturthi Break         | 02.09.2019 | 07.09.2019    |
|        |  |                     |            |   |              |                |   | Winter Vacation         | 26.10.019  | 02.11.2019    |
|        |  |                     |            |   |              |                |   | Christmas Break         | 24.12.2019 | 01.01.2020    |
|        |  |                     |            |   |              |                |   | Summer Vacation         | 23.05.2020 | 30.06.2020**  |
| 2      | M.Pharm. Quality Assurance/ Pharmacology/ Pharmacognosy/ Pharmaceutical Chemistry/ Pharmaceutics | 01.08.2019          | 03.01.2020 | 15.01.2020  | 03.02.2020   | 20.06.2020     | 02.07.2020  | Summer Vacation         | 22.06.2020 | 01.07.2020*** |

\* To accommodate the Sem. IV (CBCS) &amp; Sem. VI students for one month Industrial Training.

\*\* All PG Guides will avail vacation provided each PG Guide/Teacher ensures the completion of syllabi/compilation of the Dissertation in time as per schedule.

\*\*\* Preparatory holidays for M.Pharm. Sem. II.

Circular (CT&amp;M)

1. Principals of the concerned colleges  
2. GU, Goa University.3. Asst. Registrar (PG), Goa University  
4. P.S. to V.C.  
5. P.A. to Registrar

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Y.V. Reddy  
Prof. Y.V. Reddy  
RegistrarBES's Rajaram and Tarashai Bandodkar  
College of Pharmacy  
Inward No.: 542  
Date: 03/04/19

गोव विद्यापीठ

ताळगाव पठर 403206

गोव, भारत

Tel: 8669608796  
Fax: +91-832-2452889State Public University since 1985  
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(Accredited by NAAC with 'A' Grade)

Goa University

Taleigao Plateau 403206

Goa, India

Email: registrar@unigeo.ac.in  
Website: www.unigeo.ac.in

Ref. No: GU ACAD(COLG)ACAD TERM/Pharmacy/2020-21/ 127

Date: 12/08/2021

## CIRCULAR

In accordance with the Ordinance OS-1 of the Goa University and in supersession to the Academic Terms issued earlier by the University, the further Revised Academic Terms applicable to Pharmacy Programmes are hereby notified for the academic year 2020-21 as follows:

| Programme                        | Academic Calendar/Terms for the Academic Year 2020-21 |            |                               |                      |   |                               |                        |   |
|----------------------------------|---|------------|-------------------------------|----------------------|---|-------------------------------|------------------------|---|
|                                  | FIRST SEMESTER/TERM                                   |            | Date of Declaration of Result | SECOND SEMESTER/TERM |   | Date of Declaration of Result | VACATION / BREAK       |   |
|                                  | Commencement  | End        |                               | Commencement         | End   |                               | Type of Vacation Break | From  |
| B.Pharm 1 <sup>st</sup> Semester | 01.09.2020  | 03.04.2021 | 05.04.2021                    | 26.04.2021           | 09.09.2021  | 20.09.2021                    | 18.12.2021             | Chaturthi Break<br>10.09.2021 to 17.09.2021 |
| B.Pharm 3 <sup>rd</sup> Semester | 01.09.2020  | 06.03.2021 | 08.03.2021                    | 15.06.2021           | 30.03.2021  | 28.08.2021                    | 30.08.2021             | 29.11.2021                                  |
| B.Pharm 5 <sup>th</sup> Semester | 01.09.2020  | 06.03.2021 | 08.03.2021                    | 08.06.2021           | B.Pharm 6 <sup>th</sup> Semester<br>(Industrial Training<br>22.01.2021 to 21.04.2021) | 21.08.2021                    | 23.08.2021             | 22.11.2021                                  |
| B.Pharm 7 <sup>th</sup> Semester | 01.09.2020  | 15.01.2021 | 18.01.2021                    | 19.04.2021           | B.Pharm 8 <sup>th</sup> Semester  | 08.07.2021                    | 31.07.2021             | 02.08.2021                                  |
|                                  |   |            |                               |                      |   | 30.10.2021                    | Summer Vacation        | --  |
|                                  |   |            |                               |                      |   |                               | --                     | --  |

\* Commencement of the Semester/Term for the Academic Year 2021-22 is 20/09/2021 (5<sup>th</sup> & 7<sup>th</sup> Sem.), 01.10.2021 (3<sup>rd</sup> Sem.) and 18/10/2021 (1<sup>st</sup> Sem.)

Principals of affiliated Colleges offering Pharmacy Programmes are requested to take note of the above Academic Terms for the academic year 2020-21 and bring the contents of the Circular to the notice of all concerned.

( Prof. Rakesh S. Nayak )  
Offg. REGISTRAR

Copy to:

गोंय विद्यापीठ  
ताळगाव घाटार 403206  
गोवा, भारत  
Tel: 8669609066  
Fax: +91-832-2452889



Goa University  
Taleigao Plateau 403206  
Goa, India  
Email: registrar@unigoa.ac.in  
Website: www.unigoa.ac.in

Date: 18/08/2021

Ref. No: GU/ACAD(COLG)/ACAD.TERM/Pharmacy/2021-22/ 128

## CIRCULAR

The Academic Terms for the academic year 2021-22 applicable for Pharmacy Programmes are hereby notified as follows:

| Programme                        | Academic Calendar/Terms for the Academic Year 2021-22 |            |                             |            |                                  |  |                             |                               |                         |                  |            |            |
|----------------------------------|---|------------|-----------------------------|------------|----------------------------------|--|-----------------------------|-------------------------------|-------------------------|------------------|------------|------------|
|                                  | FIRST SEMESTER/TERM                                   |            |                             | Programme  | SECOND SEMESTER/TERM             |  |                             | Date of Declaration of Result | VACATION / BREAK        |                  |            |            |
|                                  | Commencement  | End        | Commencement of Examination |            | Commencement                     | End                                    | Commencement of Examination |                               | Type of Vacation/ Break | From             | To         |            |
| B.Pharm 1 <sup>st</sup> Semester | 18.10.2021  | 09.03.2022 | 10.03.2022                  | 09.06.2022 | B.Pharm 2 <sup>nd</sup> Semester | 26.03.2022                             | 05.08.2022                  | 06.08.2022                    | 04.11.2022              | Chhoturthi Break | --         | --         |
| B.Pharm 3 <sup>rd</sup> Semester | 01.11.2021  | 05.02.2022 | 06.02.2022                  | 05.05.2022 | B.Pharm 4 <sup>th</sup> Semester | 22.02.2022                             | 15.07.2022                  | 16.07.2022                    | 14.10.2022              | Winter Vacation  | 01.11.2021 | 06.11.2021 |
| B.Pharm 5 <sup>th</sup> Semester | 20.09.2021  | 25.01.2022 | 27.01.2022                  | 26.04.2022 | B.Pharm 6 <sup>th</sup> Semester | 10.02.2022<br>10.02.2022 to 09.03.2022 | 15.07.2022                  | 16.07.2022                    | 14.10.2022              | Christmas Break  | 24.12.2021 | 01.01.2022 |
| B.Pharm 7 <sup>th</sup> Semester | 20.09.2021  | 25.01.2022 | 27.01.2022                  | 26.04.2022 | B.Pharm 8 <sup>th</sup> Semester | 10.02.2022                             | 01.07.2022                  | 02.07.2022                    | 30.09.2022              | Summer Vacation  | 01.06.2022 | 15.06.2022 |

\* Commencement of the Semester/Term for the Academic Year 2022-23 is 01/08/2022 (5<sup>th</sup> & 7<sup>th</sup> Sem.) and 20/08/2022 (3<sup>rd</sup> Sem.)

Principals of affiliated Colleges offering Pharmacy Programmes are requested to take note of the above Academic Terms for the academic year 2020-21 and bring the contents of the Circular to the notice of all concerned.

(Dr. Radhika N. Nayak)  
Offg. REGISTRAR

Copy to:

1. The Principals of the Pharmacy Colleges
2. Controller of Examination
3. Joint Registrar (Academic)
4. Assistant Registrar (Exam) Prof.
5. P. S to V.C
6. P. A to R

*Dr. S. Prakash and Israbel Belisario  
College of Pharmacy  
Mawadu, MG  
Date: 29/08/2021 (P)*

## 2.2 Teaching-Learning Processes (110)

Total Marks 110.00

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

Institute Marks : 25.00

The teaching and learning initiatives as per the syllabus of Goa University comprises of two heads that is theory and practicals considered as separate heads. The method of implementation is as below.

**Theory Classes:** The teaching faculty in addition to prescribed curriculum, constantly motivates the students by involving them in good interactive sessions with relevant examples so as to develop keen interest and critical thinking about the topic which makes learning enjoyable.

## A few measures taken are:

- Teaching by using power point presentations with animations, short videos, charts, live specimens, model making etc.
- In order to make "learning" a pleasure, various creative methods are employed to boost up interest in students so as to enable them to choose their own areas of interest by allotting them with general and subject assignments, review projects to a group consisting of 4-5 students. This will help in developing their negotiating, managerial skills, time management, presentation skills involving compilation, documentation and effective presentation of their findings.

**Practicals:** The practicals are conducted as prescribed in the curriculum and according to the instructions in the laboratory manual for respective course. The students work individually to develop their practical skills and also in groups to develop good communication and leadership skills. The observations are recorded in the practical journals which are evaluated regularly.

The students are provided with following materials as Time Table Schedule, Calendar of events, Lesson Plans, Seminars / Presentations for smooth conduct of academic schedule.

Feedback is collected at the end of each semester for improvement of teaching- learning system and facilities.

**Time Table Schedule for B. Pharm:**

The time table for the classes were prepared according to the academic calendar and the prescribed syllabus with specific classroom

**Time Table of Odd Semester B. Pharm (2021-2022)**

**B. Pharm. Sem I**

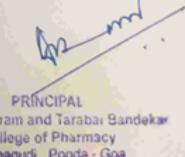
| Ponda Education Society's<br>Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda, Goa<br>Time Table for B. Pharm. Sem I 2021 With Effect from 29 <sup>th</sup> November 2021 |                      |                           |                           |                |             |   |
|---|----------------------|---------------------------|---------------------------|----------------|-------------|---|
| Day / Time  | 9.00-10.00           | 10.00-11.00               | 11.00-12.00               | 12.00-1.00     | 1.00-1.30   | 1.30- 5.30pm  |
| Mon   | Pceutics (SS)        | HAP -I (MD)               | PIC (SV)                  | Com Skill (SK) | LUNCH BREAK | A P.Analysis -SV(PA Lab)<br>B-HAP -MD ( Piology Lab)<br>C-Pharmaceutics - KK(Pceutics I Lab)<br>D-PIC-AJ (Ph Chem II Lab) |
| Tue   | PIC (AJ)             | HAP -I (GA)               | Pceutics (SS)             | PIC (AJ)       | LUNCH BREAK | BP.Analysis -SV(PA Lab)<br>C-HAP -GA ( Piology Lab)<br>D-Pharmaceutics - SS (Pceutics I Lab)<br>A-PIC-AJ (Ph Chem II Lab) |
| Wed   | Pceutics (SS)        | HAP -I (MD)               | REM Bio /Maths GA/SK      | PA (SV)        | LUNCH BREAK | CP.Analysis -SV(PA Lab)<br>D-HAP -GA( Piology Lab)<br>A-Pharmaceutics -SS(Pceutics I Lab)<br>B-PIC-AJ (Ph Chem II Lab)    |
| Thur  | Pceutics (SS)        | PIC (SV)                  | HAP -I (GA)               | PA (AJ)        | LUNCH BREAK | D- Comm Skill<br>A-HAP -MD( Piology Lab)<br>B-Pharmaceutics SS(Pceutics I Lab)<br>C-PIC-AJ (Ph Chem II Lab)               |
| Fri   | REM Bio /Maths NG/SK | A-Comm Skill /Rem BioPrac | B-Comm Skill /Rem BioPrac |                | LUNCH BREAK | D-P.Analysis -SV(PA Lab)<br>C- Comm Skill /Rem BioPrac  |
| Sat   | PA (SV)              | Com Skill (SK)            | PA (AJ)                   |                |             |   |

Batch A-1 to 30, Batch B-31 to 60, Batch C- 61 to 90 0-91-119

Class Coordinator Ms-Saumya Vernekar

1.SNM-Dr. S.N.Mamledesai 2. MD-Dr Mangirish Deshpande,3.GA-Ms Gauri Pai Angle, 4.SV-Mrs.Saumya Vernekar, 5. SS -Mr Sandesh Somnache,6 SK-Ms Sarika Kerkar,7 AJ-Ashwini Jadhav,8 KK- Kamakshi Kunkolienkar,9 NG- Dr Nilambari Gurav

Note : Any adjustments to be brought to the notice of undersigned

PRINCIPAL  
PES's Rajaram and Tarabai Bandekar  
College of Pharmacy  
Farmagudi Ponda - Goa

**Ponda Education Society's**  
**Rajaram and TarabaiBandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem III 2021 With Effect from 29<sup>th</sup> November 2021**

| Day / Time | 9.00-10.00  | 10.00-11.0   | 11.0-12.00 | 12.00-1.00   | 1.00-1.30    | 1.30-2.30            | 2.30-3.30   | 3.30-4.30 |
|------------|---|--------------|------------|--------------|--------------|----------------------|-------------|-----------|
| Mon        | A-P.Eng -PG- ( Lab Pceutics III)<br>B-P.Pcy-SSB-(Pceutics Lab II)<br>C-P.Micro- PD-(Micro Lab)<br>D-POC-II-SV (Pchem Lab II)  |              |            | LUNCH BREAK  | P.Eng (PG)   | POC-II (LS)          | PP-I (SMK)  |           |
| Tue        | B-P.Eng -PG- ( Lab Pceutics III)<br>C-P.Pcy-SMK-(Pceutics Lab II)<br>D-P.Micro- KK-(Micro Lab)<br>A-POC-II- SNM(Pchem Lab II) |              |            | LUNCH BREAK  | P.Micro (KK) | P.Eng (PG)           | POC-II (LS) |           |
| Wed        | C-P.Eng -AP- ( Lab Pceutics III)<br>D-P.Pcy-SMK-(Pceutics Lab II)<br>A-P.Micro KK-(Micro Lab)<br>B-POC-II- SV (Pchem Lab II)  |              |            | LUNCH BREAK  | PP-I (SMK)   | P.Micro (KK)         | P.Eng (PG)  |           |
| Thur       | D-P.Eng -PG- ( Lab Pceutics III)<br>A-P.Pcy-SMK-(Pceutics Lab II)<br>B-P.Micro- KK-(Micro Lab)<br>C-POC-II- SV (Pchem Lab II) |              |            | LUNCH BREAK  | P.Eng (PG)   | POC-II (SV)          | PP-I (SMK)  |           |
| Fri        | POC-II (SV)   | P.Micro (KK) | PP-I (SMK) | P.Micro (KK) | LUNCH BREAK  | PA-I*(1.30pm-5.30pm) |             |           |
| Sat        | PA * (SV )  | Comm Skill*  | PAI* (AJ ) | -            |              |                      |             |           |

Class Coordinator -Dr Swati M Keny

Note \* Lecture for Direct admission ( Diploma to degree) students

1.SNM-Dr. S.N.Mamledesai, 2.AMG-Dr. Ajeet Godbole,3.CN- Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suwarna Bobde, 6.LS-Dr.LeenaSawaikar, 7.SMK-Dr.SwatiKeny 8.PD-Dr.Pearl Digte, 9. MD-Dr. Mangirish Deshpande,10. BB-Mr. BheemangaudaBiradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Soniya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV-Mrs.SaumyaVermekar, 15.AP-Ms Arti Pednekar 16. SS -Mr Sandesh Somnache.17 SK-Ms Sarika Kerkar 18. CT -Chatali Tendulkar 19. AJ-Ashwini Jadhav20 KK- Kamakshi Kunkolienkar 21 NG- Dr NilambariGurav 22 RN- Mr. Rajan Naik

Note : Any adjustments to be brought to the notice of undersigned



PRINCIPAL  
**PES's Rajaram and Tarabai Bandekar  
 College of Pharmacy  
 Farmagudi Ponda - Goa**

**Ponda Education Society's**  
**Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem V 2021 With Effect from 29<sup>th</sup> November 2021**

| Day / Time | 9.00-10.00          | 10.00-11.00            | 11.00-12.00        | 12.00-1.00          | 1.00-1.30      | 1.30- 2.30   | 2.30-3.30 |
|------------|---------------------|------------------------|--------------------|---------------------|----------------|--|-----------|
| Mon        | Med Chem II<br>(CT) | Pcognosy II<br>(GA)    | Pcology-II<br>(BB) | IP-I<br>(AP)        | LUNCH<br>BREAK | Practical (1.30-5.30pm)<br>A-Industrial pcy -I -AP (Papeutics III Lab<br>B-Pharmacology -II-BB (Pcology Lab)<br>C-Pharmacognosy-II-NG (Pcognosy Lab) |           |
| Tue        | Pcology-II<br>(BB)  | Med Chem II<br>(SN)    | P. Juris<br>(RN)   | IP-I<br>(AP)        | LUNCH<br>BREAK | Practical (1.30-5.30pm)<br>B-Industrial pcy -I -AP (Papeutics III Lab<br>C-Pharmacology -II-BB (Pcology Lab)<br>A-Pharmacognosy-II-NG (Pcognosy Lab) |           |
| Wed        | Med Chem II<br>(CT) | Pcognosy II<br>(Dr.NG) | Pcology-II<br>(BB) | Pcology-II<br>(BB)  | LUNCH<br>BREAK | Practical (1.30-5.30pm)<br>C-Industrial pcy -I -AP (Papeutics III Lab<br>A-Pharmacology -II-BB (Pcology Lab)<br>B-Pharmacognosy-II-NG (Pcognosy Lab) |           |
| Thur       | Pcognosy II<br>(GA) | IP-I<br>(AP)           | P. Juris<br>(SPB)  | Med Chem II<br>(CT) | LUNCH<br>BREAK | -  | -         |
| Fri        | IP-I<br>(AP)        | Pcognosy II<br>(Dr.NG) | P. Juris<br>(RN)   | P. Juris<br>(SPB)   | LUNCH<br>BREAK | -  | -         |
| Sat        |                     |                        |                    |                     |                |  |           |

Class Coordinator -Dr Nilambari Gurav

1.SNM-Dr. S.N.Mamedesai, 2.AMG-Dr. Ajesh Godbole,3.CN- Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suwana Bobde, 6.LS-Dr.LeesaSawaikar, 7.SMK-Dr.SwatiKeny 8.PD-Dr.Pearl Dighe, 9. MD-Dr. Mangirish Deshpande,10. BB-Mr.BheemangundalBiradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Soniya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV-Mrs.SaumyaVernekar, 15.AP-Ms Arti Pednekar 16. SS -Mr Sandesh Sommache,17 SK-Ms Sarika Kerkar 18. CT -Chatali Tendulkar 19. AJ-Ashwini Jadhav20 KK- Kamakshi Kunkolienkar 21 NG- Dr NilambariGurav 22 RN- Mr. Rajan Naik



**Ponda Education Society's**  
**Rajaram and TarabaiBandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem VII 2021 With Effect from 29<sup>th</sup> November 2021**

| DAY/TIME | 9-10                   | 10-11  | 11-12                   | 12-1                      | 1-1.30   | 1.30 -2.30 | 2.30-3.30               | 3.30-4.30          |
|----------|------------------------|--|-------------------------|---------------------------|--|------------|-------------------------|--------------------|
| MON      | -                      | Industrial Pcy II (SPB)  | Inst Analysis (CN)      | Inst Analysis (CN)        | LUNCH BREAK  | NDDS (PD)  | Industrial Pcy II (SSB) | Inst Analysis (CT) |
| TUE      | -                      | Industrial Pcy II (SSB)  | Pharmacy Practice (MD)  | Pharmacy Practice (MD)    | LUNCH BREAK  | NDDS (PD)  | NDDS (AMG)              | Inst Analysis (CT) |
| WED      | -                      | NDDS (AMG)   | Industrial Pcy II (SPB) | LUNCH BREAK (12.00-12.30) | Instrumental Analysis (PA Lab-Batch A&B) CT<br>Instrumental Analysis (M. Pharm Chem Lab-Batch C&D) LS<br>(12.30.00pm-4.30pm) |            |                         |                    |
| THUR     | Pharmacy Practice (BB) | Practice School<br>A-Pharmaceutics (SSB)<br>B-Ph Chem (SN)<br>C-Pharmacology (MD)<br>D- Pharmacognosy (NG) |                         | LUNCH BREAK               | Practice School<br>B-Pharmaceutics (SSB)<br>C-Ph Chem (CT)<br>D-Pharmacology (BB)<br>A- Pharmacognosy (NG)                   |            |                         |                    |
| FRI      | Pharmacy Practice (MD) | Practice School<br>C-Pharmaceutics (PD)<br>D-Ph Chem (CT)<br>A-Pharmacology (MD)<br>B- Pharmacognosy (GA)  |                         | LUNCH BREAK               | Practice School<br>D-Pharmaceutics (PD)<br>A-Ph Chem (LS)<br>B-Pharmacology (BB)<br>C- Pharmacognosy (GA)                    |            |                         |                    |
| SAT      |                        |  |                         |                           |  |            |                         |                    |

Batch A-1 to 17, Batch B-18 to 34, Batch C-35 to 51, Batch D 52-68

Class Coordinator - Dr Shilpa Bhilegaonkar

1.SNM-Dr. S.N.Mamledesai, 2.AMG-Dr. Ajeet Godbole,3.CN- Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suwana Bobde, 6.LS-Dr. LeenaSawaikar, 7.SMK-Dr.SwatiKeny 8.PD-Dr.Pearl Dighe, 9. MD-Dr. Mangirish Deshpande,10. BB-Mr.BheemangaudaBiradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Soniya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV-Mrs.SaumyaVernekar, 15.AP-Ms Arti Pednekar 16. SS -Mr Sandesh Somnache,17 SK-Ms Sarika Kerkar 18. CT -Chatali Tendulkar 19 AJ-Ashwini Jadhav20 KK- Kamakshi Kunkolienkar 21 NG- Dr NilamburGurav 22 RN- Mr Rajan Naik

Note : Any adjustments to be brought to the notice of undersigned



**Ponda Education Society's**  
**Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem II 2022 With Effect from 9<sup>th</sup> May2022**

| Day / Time | 9.00-10.00       | 10.00-11.00     | 11.00-12.00    | 12.00-1.00       | 1.00-1.30           | 1.30- 5.30pm   |  |  |
|------------|------------------|-----------------|----------------|------------------|---------------------|--|--|--|
| Mon        | Patho<br>(KK)    | POC-I<br>(AJ)   | HAP-II<br>(AP) | EVS<br>(NG)      | LUNCH<br>BREAK      | A Biochem -CN (Pceutics III Lab)<br>B-HAP II -AP (Pecology I Lab)<br>C-POC-I LS (P.Chem Lab II)<br>D-Comp App-SK (Comp Lab)    |  |  |
| Tue        | Biochem<br>(SV)  | HAP-II<br>(AP)  | POC-I<br>(AJ)  | Comp App<br>(SK) | LUNCH<br>BREAK<br>- | Biochem -SV (Pceutics III Lab I )<br>B-HAP II -AP (Pecology I Lab)<br>C-POC-I AJ (P.Chem Lab II)<br>D-Comp App-SK (Comp Lab)   |  |  |
| Wed        | Comp App<br>(SK) | Patho<br>(AP)   | HAP-II<br>(KK) | EVS<br>(SMK)     | LUNCH<br>BREAK      | A Biochem -SV (Pceutics III Lab I )<br>B-HAP II -KK (Pecology I Lab)<br>C-POC-I AJ (P.Chem Lab II)<br>D-Comp App-SK (Comp Lab) |  |  |
| Thur       | Biochem<br>(SV)  | POC-I<br>(AJ)   | HAP-II<br>(KK) | Patho<br>(AP)    | LUNCH<br>BREAK<br>- | A Biochem -SV(Pceutics III Lab )<br>B-HAP II -KK(Pecology I Lab)<br>C-POC-I AJ (P.Chem Lab II )<br>D-Comp App-SK (Comp Lab)    |  |  |
| Fri        | EVS<br>(SMK)     | Biochem<br>(SV) | POC-I<br>(AJ)  | Patho<br>(KK)    | LUNCH<br>BREAK      | Biochem<br>(SV)  |  |  |
| Sat        |                  |                 |                |                  |                     | -  |  |  |

Class Coordinator Ms-Saumya Vernekar

Batch A-1 to 30, Batch B-31 to 60, Batch C- 61 to 90 D-91-119

1.SNM-Dr. S.N.Mamedesai 2. MD-Dr Mangirish Deshpande, 3.GA-Ms Gauri Pai Angle, 4.SV-Mrs.Saumya Vernekar, 5. SS -Mr Sandesh Somsache,6 SK-Ms Sarika Kerkar 7 AJ-Ashwini Jadhav 8 KK- Kamakshi Kunkolenkar 9 NG- Dr Nilambari Gurav 10PGD-Ms Prachita Guans Dessa

**Note : Any adjustments to be brought to the notice of undersigned**



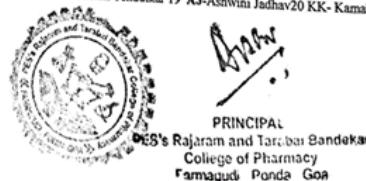
**Ponda Education Society's**  
**Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem IV 2022 With Effect from 11<sup>th</sup> March 2022**

| Day / Time | 9.00-10.00   | 10.00-11.00     | 11.0-12.00 | 12.00-1.00     | 1.00-1.30   | 1.30-2.30       | 2.30-3.30       | 3.30-4.30       |
|------------|--|-----------------|------------|----------------|-------------|-----------------|-----------------|-----------------|
| Mon        | A-Pcology I-BB- (Pcology LabII)<br>B-PP II-SMK-(Papeutics Lab II)<br>C-Pcognosy-IGA-(Pcognosy Lab)<br>D-MC-I-PGD (Pchem Lab I) |                 |            |                | LUNCH BREAK | Med Chem I (AJ) | PP II (SMK)     | Pcology I (BB)  |
| Tue        | B-Pcology I-BB- (Pcology Lab II)<br>C-PP II-SS-(Papeutics Lab II)<br>D-Pcognosy-IGA-(Pcognosy Lab)<br>A-MC-I-SN (Pchem Lab I)  |                 |            |                | LUNCH BREAK | Med Chem I (SN) | POC III (PGD)   | Pcognosy I (GA) |
| Wed        | C-Pcology I-SS- (Pcology LabII)<br>D-PP II-SPB-(Papeutics Lab II)<br>A-Pcognosy-IGA-(Pcognosy Lab)<br>B-MC-I-PGD (Pchem Lab I) |                 |            |                | LUNCH BREAK | POC III (PGD)   | Pcognosy I (GA) | Pcology I (BB)  |
| Thur       | D-Pcology I-BB- (Pcology LabII)<br>A-PP II-PD-(Papeutics Lab II)<br>B-Pcognosy-IGA-(Pcognosy Lab)<br>C-MC-I-PGD (Pchem Lab I)  |                 |            |                | LUNCH BREAK | PP II (SMK)     | Pcology I (BB)  | POC III (PGD)   |
| Fri        | POC III (PGD)  | Med Chem I (SN) | PP II (AP) | Pcology I (BB) | LUNCH BREAK | Med Chem I (AJ) | Pcognosy I (GA) | PP II (AP)      |
| Sat        | Pcognosy I (GA)  |                 |            | -              |             |                 |                 |                 |

Batch A-1 to 32, Batch B-33 to 65, Batch C- 66 to 97 D-98-125 Class Co-ordinator: Dr Swati M. Keny

1.SNM-Dr. S.N.Mamedessai, 2.AMG-Dr. Ajeet Godbole, 3.CN- Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suvarna Bobde, 6.LS-Dr. Leena Sawaikar, 7.SMK-Dr. Swati Keny 8.PD-Dr. Pearl Dighe, 9. MD-Dr. Mangirish Deshpande, 10. BB-Mr. Bheemangauda Biradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Sonjya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV- Mrs.Saumya Venekar, 15.AP- Ms Arti Pednekar 16. SS -Mr Sandesh Somnache, 17 SK-Ms Sarika Kerkar 18. CT -Chitali Tendulkar 19 AJ-Ashwini Jadhav 20 KK- Kamakshi Kunkolienkar 21 NG- Dr Nilambari Gurav 22 PGD -Prachita Gauns Desai 23- RN- Mr Rajan Naik

Note : Any adjustments to be brought to the notice of undersigned

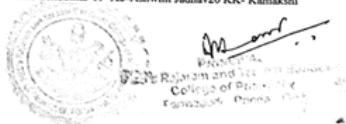


**Ponda Education Society's**  
**Rajaram and TarabaiBandekar College of Pharmacy, Farmagudi, Ponda, Goa**  
**Time Table for B. Pharm. Sem VI 2022 With Effect from 4<sup>th</sup> April 2022**

| Day / Time | 9.00-10.00        | 10.00-11.00      | 11.00-12.00      | 12.00-1.00        | 1.00-1.30   | 1.30- 2.30  | 2.30-3.30 |
|------------|-------------------|------------------|------------------|-------------------|-------------|---|-----------|
| Mon        | Biopharm (SS)     | HDT (NG)         | Biotech (PD)     | PQA (SSB)         | LUNCH BREAK | Practical (1.30-5.30pm)<br>A-Med Chem -III -CT (P.Chem I Lab)<br>B-Pharmacology -III-MD (Piology II Lab)<br>C-HDT-NG (Pognosy Lab)  |           |
| Tue        | HDT (NG)          | Piology III (MD) | Biotech (KK)     | Med Chem III (CT) | LUNCH BREAK | Practical (1.30-5.30pm)<br>B-Med Chem -III -CT (P. Chem I Lab)<br>C-Pharmacology -III-MD (Piology II Lab)<br>A-HDT-NG (Pognosy Lab) |           |
| Wed        | Med Chem III (CT) | HDT (NG)         | PQA (SSB)        | Piology III (MD)  | LUNCH BREAK | Practical (1.30-5.30pm)<br>C-Med Chem -III -CT (P. Chem I Lab)<br>A-Pharmacology -III-MD (Piology II Lab)<br>B-HDT-NG (Pognosy Lab) |           |
| Thur       | Piology III (MD)  | Biopharm (SS)    | HDT (NG)         | Med Chem III (CT) | LUNCH BREAK | Biotech (PD)  | PQA (RN)  |
| Fri        | Biotech (KK)      | Biopharm (SS)    | Piology III (MD) | Med Chem III (CT) | LUNCH BREAK | Biopharm (SS)   | PQA (RN)  |
| Sat        |                   |                  |                  |                   | -           |   |           |

1.SNM-Dr. S.N.Mamledesai, 2.AMG-Dr. Ajeet Godbole,3.CN- Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suwarna Bobde, 6.LS-Dr.LennaSawaikar, 7.SMK-Dr.SwatiKeny 8.PD-Dr.Pearl Dighie, 9. MD-Dr. Mangirish Deshpande,10. BB-Mr.BheemangaduBiradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Soniya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV-Mrs.SaumyaVernekar, 15.AP-Ms Arti Pednekar 16. SS-Mr Sandesh Somnache,17 SK-Ms Sarika Kerkar 18. CT -Chatali Tendulkar 19. AJ-Ashwini Jadhav20 KK- Kamakshi Kunkolienkar 21 NG- Dr NilambariGurav 22 PGD -PrachiGautam Desai 23-RN- Mr Rajan Naik

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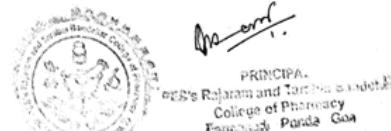


**Ponda Education Society's  
Rajaram and TarabaiBandekar College of Pharmacy, Farmagudi, Ponda, Goa  
Time Table for B. Pharm. Sem VIII 2022 With Effect from 11<sup>th</sup> April 2022**

| Day / Time | 9.00--10.00   | 10.00-11.00 | 11.00-12.00 | 12.00-1.00    | 1.00-1.30   | 1.30- 4.30                    |
|------------|---------------|-------------|-------------|---------------|-------------|-------------------------------|
| Mon        | PMM (PG)      | RM (AMG)    | AIT (SV)    | Biostats (SK) | LUNCH BREAK | Elective Subject Project Work |
| Tue        | AIT (CT)      | Ph.PD (PD)  | PMM (PG)    | SPP (PGD)     | LUNCH BREAK | Elective Subject Project Work |
| Wed        | AIT (SV)      | PMM (MD)    | Ph.PD (PD)  | SPP (BB)      | LUNCH BREAK | Elective Subject Project Work |
| Thur       | AIT (CT)      | SPP (BB)    | Ph.PD (SSB) | PMM (PG)      | LUNCH BREAK | Elective Subject Project Work |
| Fri        | Biostats (SK) | RM (AMG)    | Ph.PD (SSB) | SPP (PGD)     | LUNCH BREAK | -                             |
| Sat        |               |             |             |               |             | -                             |

1.SNM-Dr. S.N.Mamledesai, 2.AMG-Dr. Ajeet Godbole,3.CN-Dr. Celina Nazareth, 4.SPB-Dr. Shilpa Bhilegaonkar, 5.SSB-Dr Suwanna Bobde, 6.LS-Dr. LeenaSawaikar, 7.SMK-Dr.SwatiKeny 8.PD-Dr.Pearl Dighe, 9.MD-Dr. Mangirish Deshpande,10.BB-Mr.BhemangaudaBiradar, 11.PG- Mr. Pankaj Gajare, 12.SN-Ms Soniya Naik, 13.GA-Ms Gauri Pai Angle, 14.SV-Ms.SaumyaVernekar, 15.AP-Ms Arti Podnkar, 16. SS -Mr Sandesh Somnache,17 SK-Ms Sarika Kerkar 18. CT -Chatali Tendulkar 19 AJ-Ashwini Jadhav20 KK- Kamakshi Kunkolienkar 21 NG- Dr NilambariGurav 22 RN- Mr Rajan Naik

Note : Any adjustments to be brought to the notice of undersigned



*[Signature]*

PRINCIPAL  
Ponda Education Society's  
Rajaram and TarabaiBandekar  
College of Pharmacy  
Farmagudi, Ponda, Goa

**Teaching Plan in the course file:**

**LESSON PLAN**

Name of Faculty: Miss Kamakshi R.S. Kunkhalkar Lect. Per Week: 4.  
 Class: B.Pharm Semester III

| Sl. No. | Topics to be Covered  | No. of Lectures Required |
|---------|---|--------------------------|
| Unit I  | Introduction, history of microbiology, its branches<br>Scope and its importance   | 10 hours                 |
|         | Introduction to Prokaryotes and eukaryotes  |                          |
|         | Study of ultra-structure and morphological classification of bacteria, nutritional requirements, raw materials used for culture media, and physical parameters for growth, growth curve, dilution and preservation methods for pure cultures, Cultivation of anaerobic, quantitative measurement of bacterial growth (Total viable count) |                          |
|         | Study of different types of Phase contrast microscopy, Dark field microscopy and electron microscopy.   |                          |
| Unit II | Identification of bacteria using staining techniques (Simple Gram's and Ziehl's staining) and Biochemical Tests (IMViC)   | 10 hours                 |
|         | Study of principle, procedure, merits, demerits, and applications of physical, chemical (radiation), and biochemical methods of sterilization   |                          |

Name & Signature of Faculty (Miss Kamakshi R.S. Kunkhalkar) Signature of the H.O.D. (Prof. Ajay M. Gadekote) Signature of the Principal (Dr. B. M. Patil)

**LESSON PLAN**

Name of Faculty: Kamakshi R.S Kunkhalkar Lect. Per Week: 4.  
 Class: B.Pharm Semester III

| Sl. No.  | Topics to be Covered   | No. of Lectures Required |
|----------|--|--------------------------|
| Unit III | Evaluation of the efficiency of sterilization methods, Equipments employed in Large scale sterilization, Evaluation of the efficiency of Sterilization methods, Equipments employed in Large scale Sterilization, Sterility indicators   |                          |
|          | Study of morphology, classification, reproduction, to replication and Cultivation of fungi and viruses   | hours                    |
|          | Classification and mode of action of disinfectants, Factors influencing Disinfection, Antiseptics and their evaluation for bactericidal and bacteriostatic actions   |                          |
|          | Sterility Testing of Products ( Solids, liquids, Ointments, ointments and other sterile products) according to IP, BP and USP  |                          |
| Unit IV  | Designing of Aseptic area, Laminar air flow equipment, study of different sources of contamination in the aseptic area and methods of prevention, Clean area classification, Principles and methods of different microbiological assay, Methods for Standardization of antibiotics, Vitamins and amino acids | 08 hours                 |

Name & Signature of Faculty (Miss Kamakshi R.S. Kunkhalkar) Signature of the H.O.D. (Prof. Ajay M. Gadekote) Signature of the Principal (Dr. B. M. Patil)

**Methodologies to support weak students and encourage bright students**

**Weak students support strategy:** The institution pays extra attention to weaker students whose performance is not satisfactory. The faculty conduct extra classes, discuss various university question papers, creates an awareness in the students by pointing their mistakes in their approach towards learning in a convincing way.

Teachers attempt to enhance the performance of weak students as follows:

- Regular counselling and providing moral support by mentor teacher.
- Monitoring constantly their performance in internal tests and final examinations.
- Engaging tutorial lectures

**Bright students support strategy:** The bright students are encouraged to keep abreast with latest developments through various scientific magazines, journals and e-resources available in college library. They are also oriented to participate in various national and international pharmacy related events. Encouraging them to participate in state and national levels quiz and debate competitions. They are motivated to appear for entrance exams of reputed institutions for higher studies. Students are informed of the international educational opportunities available.

**Quality of classroom teaching**

As a part of academic audit, the principal routinely monitors the classroom teaching taking verbal feedback from the students.

**Continuous Assessment for theory and practical classes**

With continued quest for improving the students' performance, we at PES's Rajaram and Tarabai Bandekar College of Pharmacy have initiated continuous mode of evaluation both in the theory and practical classes. Students are evaluated for their performance in theory and practicals.

**Student feedback on teaching learning process and action taken**

Students feedback regarding the teaching skills of the faculty is taken at the end of each semester in the prescribed format. The feedback is evaluated by the assigned person and submitted to the head of the institution and suitable suggestions are given to faculty member for improvement wherever necessary. This helps in improving the quality within the college. The student feedback also provides a major input for revision of procedures, infrastructure facilities and teaching-learning process. The feedback from graduating students enables the college in understanding the student needs and expectations in academic and non-academic matters.

**Student feedback on faculty**

**PES's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY**

FARMAGUDI, PONDA- GOA 403401

**FEEDBACK FROM STUDENTS**

Name of the Subject Teacher: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / 20 \_\_\_

Subject: \_\_\_\_\_ Class (Sem): \_\_\_\_\_

NOTE: 1. Students having minimum 75% attendance & who have cleared all the subjects of previous semester are eligible to give the feedback.

2. Answer honestly without fear to all questions and select only one choice for each question.

3. Be anonymous, do not disclose your identity on feedback forms.

1. Does the teacher state the objective clearly at the beginning of each class?  
Very Good  Good  Average  Poor
2. Does the teacher explain important concepts/ideas in a way that can be understood?  
Very Good  Good  Average  Poor
3. Does the teacher create/stimulate interest in the subject?  
Very Good  Good  Average  Poor
4. Does the teacher change the pace while presentation by shifting the emphasis on practical application of the Subject ?  
Very Good  Good  Average  Poor
5. Does the teacher have clarity in his/her teaching?  
Very Good  Good  Average  Poor
6. Is the teacher sympathetic & helpful towards students?  
Very Good  Good  Average  Poor
7. Were the lessons/ Class on the whole effective?  
Very Good  Good  Average  Poor
8. Whether teacher is audible to the whole class?  
Very Good  Good  Average  Poor
9. Does the teacher help you regarding your doubts outside the classroom to the subject ?  
Very Good  Good  Average  Poor
10. Does the teacher give current information about the subject topic?  
Very Good  Good  Average  Poor
11. Do you feel the teacher has command over the subject?  
Very Good  Good  Average  Poor

12. Whether the teacher is on right time to the class?  
 Very Good  Good  Average  Poor

13. Whether the teacher is prompt in completion of syllabus as per subject plan?  
 Very Good  Good  Average  Poor

14. Whether the teacher regularly engages classes as per time table?  
 Very Good  Good  Average  Poor

15. Whether teacher takes full class as per allotted time? (1 hour)  
 Very Good  Good  Average  Poor

**Student feedback on Curriculum**


PES's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY  
 FARMAGUDI, PONDA- GOA, INDIA, 403401.


**COURSE END FEEDBACK FORM**

As part of Continuous Quality Improvement, your feedback is valuable

|               |   |  |  |
|---------------|---|--|--|
| PROGRAMME     | B.Pharm. <input type="checkbox"/> / M.Pharm. <input type="checkbox"/> |  |  |
| ACADEMIC YEAR | 20 <u>  </u> - <u>  </u>  |  |  |
| SEMESTER      | I / II / III / IV / V / VI / VII / VIII                               |  |  |
| COURSE CODE   |   |  |  |

| SR.<br>NO. | PARTICULARS  | FEEDBACK (Put ✓) |          |             |
|------------|--|------------------|----------|-------------|
|            |  | AGREE            | DISAGREE | NOT<br>SURE |
| 1.         | OUTCOMES FOR THE COURSE WERE CLEAR                             |                  |          |             |
| 2.         | COURSE OUTCOMES MET THE COMPETENCIES AS PER THE COURSE CONTENT |                  |          |             |
| 3.         | TIMELY COMPLETION OF COURSE CONTENTS                           |                  |          |             |
| 4.         | ACHIEVEMENT OF SET COURSE OUTCOMES                             |                  |          |             |
| 5.         | AVAILABILITY OF TEXT BOOKS/ STUDY MATERIAL                     |                  |          |             |
| 6.         | RELEVANCE OF COURSE CONTENT TO PRACTICAL ASPECTS               |                  |          |             |
| 7.         | LECTURES CONDUCTED AS PER THE TIME TABLE                       |                  |          |             |
| 8.         | INTELLECTUAL STIMULATION BY COURSE CURRICULUM                  |                  |          |             |
| 9.         | THE COURSE CONTENT IS  |                  |          |             |

|   |  |  |  |
|---|--|--|--|
| RELEVANT TO PROGRAMME OUTCOMES  |  |  |  |
| 10. USEFULLNESS OF ASSIGNMENTS AND PRACTICAL DEMONSTRATIONS CONDUCTED |  |  |  |

-----THANK YOU FOR YOUR PARTICIPATION -----



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

Institute Marks : 10.00

The CBCS curriculum of Goa University gives a weightage of 75% of marks for semester end examination and 25% marks for internal examination. The end semester examination question paper setting consists of an external paper setter who shall set 3 sets of question appears along with the answer keys packed in a separate envelops with paper marking of I, II, III respectively. The internal paper setter will be an internal examiner who is chosen from University approved panel of examiners who is the "Chairman" for that subject and receives the end semester examination question paper sent by the university approved question paper setter.

All the three sets will be thoroughly scrutinised. The internal paper setter who is also the chairman for that particular subject again prepares 3 sets of question papers giving equal weightage to the external paper setter. The internal assessment examination, the subject in-charge sets up the question papers for 30 marks categorised as long essay, short essay and short answers respectively. The prepared manuscript is submitted in a duly signed, sealed envelope as per the directions of the examination in charge within the stipulated.

The answer scripts of all the semester I, III, V, VII (Odd Semesters) and semester II, IV, VI, and VIII are evaluated and moderated at the university level through a "Central Assessment Programme". The external and internal examiners will value the answer scripts and enter the marks secured in the marksheet provided by the university and submit the same to the CAP director who will carefully scrutinise the marks awarded to individual answers and also cross checks the final total.

### Assignments and evaluation

Assignment is an interactive learning tool that facilitates student to do self-management of knowledge. The teachers during the regular classes teach the students to write the appropriate answers to each question. The major issues the students face are identified and addressed using remedial measures.

### Internal Assessment Model Question Paper-OBE

| P.E.S's RAJARAM AND TARABAI BANDEKAR COLLEGE OF PHARMACY,<br>FARMAGUDI-PONDA, GOA.<br>PRACTICAL EXAMINATION<br>(2019-20) (April- 2019) |   |                             |                                  |          |
|--|---|-----------------------------|----------------------------------|----------|
| SUBJECT CODE: 1. 4.3 P   | SUBJECT NAME: PHARMACEUTICAL ORGANIC CHEMISTRY IV   | B.PHARM. SEM- IV<br>Batch I |                                  |          |
| DATE:26/04/2019  | TIME: 9:00am-1:00pm   | TOTAL MARKS: 10             |                                  |          |
| QUESTION NO.   | QUESTION  | MARKS                       | CO NO.                           | PO NO.   |
| 1  | <p><b>Synopsis :</b></p> <p>1. Define Iodine Value.<br/>2. Write the reaction involved in quantitative determination of amino group by bromination method<br/>3. Write reaction involved in synthesis of benzanilide from benzophenone.</p>   | 02                          | 1.4.3 P1<br>1.4.3 P3             | 1,2,3,11 |
| 2  | <p><b>EXPERIMENT</b></p> <p><b>Determination of equivalent weight of given carboxylic acid by acid - base titration.</b></p> <p><b>Procedure for standardization of NaOH</b></p> <p>Pipette, out 10ml of 0.05N Oxalic acid solution into 250ml conical flask. Add 2 drop of Phenolphthalein indicator and titrate with 0.05N NaOH until pale pink colour is obtained.</p> <p><b>Procedure:</b></p> <p>Weigh accurately about 0.8gm of acid sample in a 100ml volumetric flask and dissolve it in 100ml distilled water. Pipette out 20ml from it into 250ml conical flask. Add 1-2drops phenolphthalein indicator and titrate against 0.05N NaOH solution until a faint pink color is obtained.</p> | 06                          | 1.4.3 P2                         | 1,2,3,11 |
| 3  | Viva-voce and Journal   | 02                          | 1.4.3 P1<br>1.4.3 P2<br>1.4.3 P3 | 1,2,3,11 |

Page 1 of 1

*2018-19*  
P.E.S's RAJARAM AND TARABAI BANDEKAR COLLEGE OF PHARMACY,  
FARMAGUDI-PONDA, GOA.  
FIRST INTERNAL ASSESSMENT THEORY EXAMINATION  
(2018-19) (October- 2018)

|                       |   |                   |
|-----------------------|---|-------------------|
| SUBJECT CODE: 1.3.4 T | SUBJECT NAME: PHARMACEUTICAL ORGANIC CHEMISTRY II | B.PHARM. SEM- III |
| DATE:22/10/2018       | TIME:10:00 a.m. to 11:00 am                       | TOTAL MARKS: 10   |

| QUESTION NO. | QUESTION   | MARKS   | CO NO.                                       | PO NO. |
|--------------|--|---------|--|--------|
| 1            | Answer <u>any two</u> of the following:<br><br>i. Explain the reaction and mechanism involved in Haworth's synthesis of Anthracene.<br>ii. Explain the reaction and mechanism involved in Knorr Pyrrole synthesis.<br>iii. Write the different possible conformations of n-butane and explain the stability with the help of potential energy diagram. | 2 X 3=6 | 1.3.4 T1<br>1.3.4 T3<br>1.3.4 T5             | 1.3.11 |
| 2            | Answer <u>any two</u> from the following:<br><br>i. Justify why electrophilic substitution of Pyrrole takes place at position-2 and give any two substitution reactions of Pyrrole.<br>ii. Write any four chemical reactions of quinoline.<br>iii. Write a note on SN2 reaction.   | 2X2=4   | 1.3.4 T3<br>1.3.4 T4<br>1.3.4 T5<br>1.3.4 T6 | 1.3.11 |

Page 1 of 2



P.E.S's RAJARAM AND TARABAI BANDEKAR COLLEGE OF PHARMACY,  
FARMAGUDI-PONDA, GOA.  
Academic Year: 2021-22  
SECOND INTERNAL ASSESSMENT THEORY EXAMINATION, March -2022.

|                    |                             |                    |
|--------------------|-----------------------------|--------------------|
| BP 103 T           | PHARMACEUTICS               | B. PHARM.<br>SEM-I |
| Date<br>12/03/2022 | Time: 10:00a.m. to 11:30 am | Total marks<br>30  |

Instructions: Draw neat labelled diagrams whenever necessary.

|     |  |                               |              |          |
|-----|--|-------------------------------|--------------|----------|
| I   | Long Essay<br>(Answer any ONE of the following TWO questions)  | (01 x 10 = 10)                | CO<br>No     | PO<br>No |
| 1.  | Compare o/w and w/o type of emulsion. Describe in detail tests to identify type of emulsion?   | BP103T2                       | 1,11         |          |
| 2.  | Write advantages, disadvantages and general formulation of pharmaceutical suspensions. Differentiate flocculated and deflocculated suspensions | BP103T2                       | 1,11         |          |
| II  | Short Essay<br>(Answer any TWO of the following Three questions)   | (02 x 05 =10)                 | CO<br>No     | PO<br>No |
| 3.  | Describe general method for preparation of Suspension containing precipitate forming liquid  | BP103T3                       | 2,3,6,11     |          |
| 4.  | Define emulsion. Write general formula used for preparation of primary emulsion.   | BP103T3                       | 2,3,6,11     |          |
| 5.  | Explain the concept of Displacement value with help of suitable example.   | BP103T3                       | 2,3,6,11     |          |
| III | Short Answers (All questions are compulsory)   | (05 x 02= 10)                 | CO<br>No     | PO<br>No |
| 6.  | What are the ideal properties of suppository bases?  | BP103T3<br>BP103T4            | 2,3,6,7,11   |          |
| 7.  | Enlist various methods used to overcome physical incompatibility in the prescription   | BP103T3<br>BP103T4            | 2,3,6,7,11   |          |
| 8.  | Define Creaming and Cracking   | BP103T2                       | 1,11         |          |
| 9.  | Describe in brief: permissible incompatibility and preventable incompatibility   | BP103T3<br>BP103T4            | 2,3,6,7,11   |          |
| 10. | Enlist any two examples of suspending agents and emulsifying agent.  | BP103T2<br>BP103T3<br>BP103T4 | 1,2,3,6,7,11 |          |

P.E.S's RAJARAM AND TARABAI BANDEKAR COLLEGE OF PHARMACY,  
FARMAGUDI-PONDA, GOA.

**FIRST INTERNAL ASSESSMENT PRACTICAL EXAMINATION**

**(2021-2022) (July-2022)**

|                             |  |                                   |
|-----------------------------|--|-----------------------------------|
| <b>Subject Code: BP207P</b> | <b>Subject Name: Human Anatomy and Physiology-II</b> | <b>B.Pharm. Sem- II (BATCH B)</b> |
| <b>Date: 11/07/2022</b>     | <b>Time: 1:30 pm to 5:30 pm</b>                      | <b>Total Marks: 40</b>            |

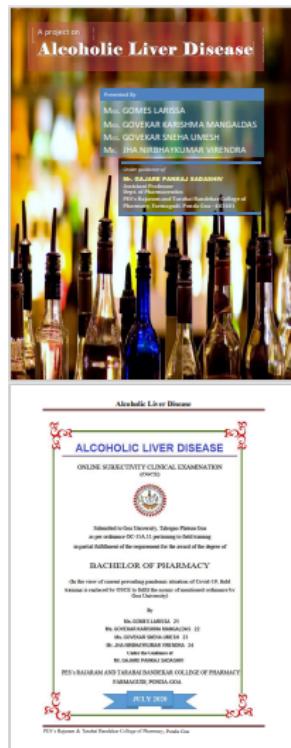
| <b>Question No.</b> | <b>Question</b>  | <b>Marks</b> | <b>Co No.</b>                             | <b>Po No.</b>  |
|---------------------|--|--------------|---|--|
| <b>I</b>            | <b>Synopsis</b><br>1. Write a short note on structure of skin (5 mks)<br>2. Explain in short the mechanism of Olfaction (5 mks)  | 10 mks       | BP207P1<br>BP207P5                        | 1,2,6,8,9,11<br>1,2,6,8,9,11                                     |
| <b>II</b>           | <b>Major Experiment</b><br>Identify the given permanent slide and mark the various parts and write a note on the Anatomy and Histology of the same   | 15 mks       | BP207P2                                   | 1,2,3,6,8,9,11   |
| <b>III</b>          | <b>Minor Experiment</b><br>a. Identify the various family planning devices and give its function<br>b. Calculate the Body Mass Index and record the observation and comment on the results obtained.<br>c. Calculate your distinct vision using Snellen's Chart and record the observation and comment on the results obtained | 10 mks       | BP207P1,<br>BP207P3<br>BP207P4<br>BP207P5 | 1,2,6,8,9,11<br>1,2,3,6,8,9,11<br>1,2,3,6,8,9,11<br>1,2,6,8,9,11 |
| <b>IV</b>           | <b>Viva-Voce</b>   | 05 mks       | BP207P1<br>BP207P2,<br>BP207P4<br>BP207P5 | 1,2,6,8,9,11<br>1,2,3,6,8,9,11<br>1,2,3,6,8,9,11<br>1,2,6,8,9,11 |

### 2.2.3 Quality of Students projects (15)

Institute Marks : 15.00

As a part of the new regulations for B. Pharm degree Programme of semester VIII, students are required to take up a small project in a group (3 to 5) and on completion of project submit a report. The students have to submit the report in a prescribed format with Abstract, Introduction, Rationale, Literature Review, Materials and Methods, Results and Discussion, Summary and Conclusion. The students are required to present their work either by way of poster or oral presentation before an audience and the evaluating team. The evaluators will thoroughly scrutinize the projects on Sustainability of the work, presentation, defending ability etc. The students in semester VIII are allotted guides based on their merit; and the area of research work of the group of students allotted is decided by the respective guide. The guides while allocating the project work are required to keep in view personal and environmental, safety, ethical considerations. In order to smoothen this process of research work to be done by the students in semester VIII, initiative is taken in the semester VI wherein students are divided in groups of 4-5, are allotted guides who will assign the students topics and guide them how to carry out review of literature on any research topic of their interest. This activity will make the students more focused, proactive and improve their critical thinking and planning ability.

The students with old B. Pharm syllabus do not have research projects like the PCI syllabus in semester VIII. Hence in order to compensate for this GAP in terms of skill development, the students in their third year were divided into groups and were asked to do literature review on various topics under guidance of faculties.



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

Institute Marks : 20.00

Great emphasis is laid to provide hands-on-training to the students in handling of the available equipments, validation of equipments, good documentation practices, and career opportunities in pharmaceutical industries. The pharmaceutical industries in the state of Goa provide excellent infrastructural facilities and is recognised globally as an export hub of pharmaceuticals.

As per **OC-70.11** every student shall be required to work for a minimum of **150 hours** spread over **four weeks** in a Pharmaceutical Industry in their Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, or Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After second year, the student shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the Head of the Institute.

The pharmaceutical industries in Goa support the institute in various ways like research collaborations book and equipment donations etc. The  
and Amsar Goa Private Limited Colvale Industrial Estate, Colvale, Bardez – Goa to  
ensure students are trained and industry ready.

institute has signed MOUs with Vergo Clinicals Pvt Ltd Goa

**VerGo Pharma Research Pvt. Ltd.**  
(Division - VerGo Clinicals)



To,  
The Principal  
Rajaram and Tarabai Bandekar College of Pharmacy  
Farmagudi, Ponda  
Goa 403401

03-Feb-2022

Sub: MOU (Memorandum of Understanding) for Training of M.Pharm Students

Dear Sir,

With reference to the resume of M.Pharm. (Pharmaceutical Chemistry) candidates and subsequent telephonic conversation with the management, we are pleased to inform you that we have selected the following candidates for training in the Bio Analytical Department of our organization on the terms and conditions mutually agreed as below:-

**Names of the Selected Candidates:**

1. Ms Osleen Pinto
2. Ms Gokuldas Kamat

Duration: 01-Feb-2022 to 30-Apr-2022

**Terms and conditions:**

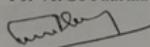
1. Students are requested to join on or before for the period of 3 months in the academic year 2021-22.
2. It is understood by college & students that VerGo Pharma Research Pvt. Ltd. Does not take any responsibility of the students. Hence students are requested to maintain their behaviour, safety and honesty within and outside the Company premises. Each students will be assigned individual project decided by VerGo. Students will be exposed to Analytical operation's as and when required.
3. All confidential data generated during product development will be sole property of VerGo Pharma Research Pvt. Ltd. Only and the students or institute will not have any ownership on the data. VerGo will determine the type and quantum of data to be provided to the students for their Thesis Submission. Institute or student will not have any patent rights on the invention if any generated during the course of work. Any publication by the students, a written permission to be taken from VerGo Pharma Research Pvt. Ltd.
4. The students are required to take necessary safety precautions due to Covid & the Company will not be responsible for any events.

We wish a long term and mutually fruitful association with your institution.

PES's Rajaram and Tarabai Bandekar  
College of Pharmacy  
Inward No. 102  
Date: 17/02/2022 (D)

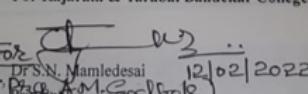
Thanking you

For VerGo Pharma Research Pvt. Ltd.

  
Dr Raman Batheja  
Chief Operating Officer



For Rajaram & Tarabai Bandekar College of Pharmacy

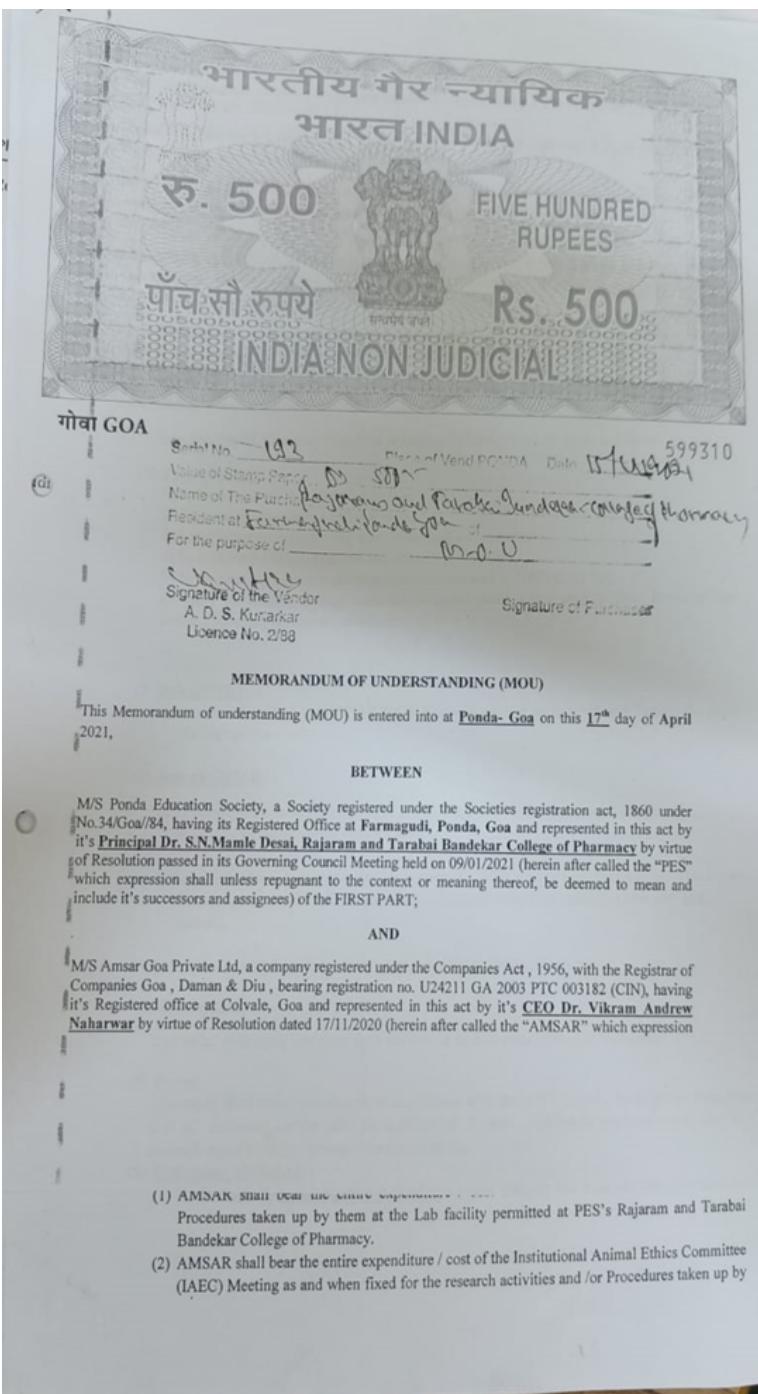
  
D.F.S.N. Mamedesai 12/02/2022  
(Principal)  
Date: 12/02/2022 (D)



Registered Office: Plot No. 24-1, D1, Mologa de Orora, Corlim, Tiswadi, Goa - 403110, India.

Tel: +91 (832) 6640400 website: [www.vergolabs.com](http://www.vergolabs.com)

GST. No.: 30AADCV5455E1ZM CIN: U73100GA2010PTC014001



The industries that have supported the institute by providing Books, equipments include

| Sr No | Company Name   | Contribution            |
|-------|--|-------------------------|
| 1     | Blue Cross Laboratories Pvt. Ltd.<br>Verna Industrial Estate, Verna, Goa | Colony Counter          |
| 2     | Lupin Limited<br>Verna Industrial Estate, Verna, Salcette - Goa          | HPLC                    |
| 3     | Merck India Ltd Usgao Goa  | Chemicals and Glassware |
| 4     | Cipla Ltd.<br>Verna Industrial Estate, Verna, Salcette - Goa             | Pharmacopoeias          |

The degree students will also be exposed to **community service** by organising health camps in association with the community health centres, local pharmacies wherein the students are encouraged to enlighten the general public about weight management, diabetes management, dietary regime for diabetic patients, importance of regular exercises, yoga, meditation, pranayama, stress management. Students are given the responsibility of patient counselling about safe use of medication, use of medical devices, self-monitoring devices, importance of handwashing etc.

The students perform street plays in local language to create awareness in general public about importance of personal hygiene and life style disorders.

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

Institute Marks : 10.00

In continuation to its drive towards excellence, the training and placement cell arranges a 04 Week in-plant training to students of B. Pharm. 3rd year in industry/community pharmacy. Before deputing students to in-plant training, the students will undergo an orientation program and the students will be enlightened with a brief overview about the activities of manufacturing industry. The pharma industries admit the students subject to vacancy available in different branches. During the in-plant training session the students will get hands on experience in handling sophisticated machinery, analytical scaleup instruments, Good documentation practices, Good Laboratory Practices under the supervision of experts. On successful completion of the training the students will receive a completion certificate duly signed by the competent authorities. The students will get acquainted with working of different machineries like Tablet Compression Machines, FTIR, UV, Lyophiliser, Probe Sonicator etc.,

#### Community Pharmacy Training

##### List of Pharmacies with number of students offered for training III B. Pharm. Students 2019 – 20

| Name of Pharmacy                          | No. of students |
|---|-----------------|
| Nutan Medicals Chemist & Druggist         | 1               |
| Anand Building, Sadar Ponda - Goa         |                 |
| Confianca Drug Store Chemist and Druggist | 1               |
| Assolna - Goa                             |                 |

|  |   |
|--|---|
| Dhruv Pharmacy Chemist and Druggist                    | 2 |
| Rumdamol Housing Board, Margao -Goa                    |   |
| Kurtarkar Medical Stores Chemist & Druggist            | 3 |
| Kazi Bldg., Ponda - Goa                                |   |
| Parvati Medical Stores Chemist & Druggist              | 1 |
| Majikwada, Paeyem, Sattari - Goa                       |   |
| Sudeep Medical Stores Chemist & Druggist               | 2 |
| Kaziwada, Ponda – Goa                                  |   |
| Cure It Chemist & Druggist                             | 3 |
| Dagwal Raia, Salcete -Goa                              |   |
| Elixir Medicos Chemist & Druggist                      | 2 |
| Near Classic Hospital, Malbhat, Margao -Goa            |   |
| Laxmi Chemist & Druggist                               | 4 |
| Sankhlim Hospital Junction, Gokulwadi, Sanquelim - Goa |   |
| Dhanlaxmi Pharmacy Chemist & Druggist                  | 1 |
| Dukle Hospital, Candolim - Goa                         |   |
| Walson & Walson Pharmacy Chemist & Druggist            | 1 |
| Naika vaddo, Calangute, Bardez - Goa                   |   |
| Kuntal Medical Stores Chemist & Druggist               | 1 |
| Angelica Arcade, Quepem - Goa                          |   |
| M/S. Vaibhavi Chemist & Druggist                       | 1 |
| Below CMC Community Hall, Cuncolim, Salcete - Goa      |   |
| R. P. Medical Stores Chemist & Druggist                | 1 |
| Sapna Park, Curti, Ponda - Goa                         |   |
| M/S. Mangesh Medicals Chemist & Druggist               | 1 |
| Mangeshi - Goa   |   |
| Farmacia We Care Chemist & Druggist                    | 1 |
| Carvalho Building, Near Canara Bank, Panaji - Goa      |   |
| Radhe Mdical Store Chemist & Druggist                  | 1 |
| Mapusa, Bardez - Goa                                   |   |
| Siddheshwar Medical Stores Chemist & Druggist          | 1 |
| Dabholwada. Chapora, Bardez - Goa                      |   |
| Abania Drug Stores Chemist & Druggist                  | 1 |
| Calangute, Bardez - Goa                                |   |

|  |   |
|--|---|
| Shantadurga Medical Store Chemist & Druggist<br>Near Bank of India, Municipal Market, Bicholim - Goa | 1 |
| Take Care Pharmacy Chemist & Druggist<br>Colvale - Goa   | 1 |
| Sai Medical Chemist & Druggist<br>Bicholim - Goa   | 1 |
| M/s. Medicine World<br>Old Market Margao - Goa   | 1 |
| e-clinix Chemist & Druggist<br>Near MES bus stop, Sancoale - Goa                                     | 1 |
| Navhind Pharmacy<br>New Market, Margao - Goa   | 1 |
| Shri Mahalasa Chemist & Druggist<br>Mardol, Ponda - Goa  | 1 |
| M/s. Shah Chemist & Druggist<br>Jayanti Building, Tisk, Honda, Sattari - Goa                         | 1 |
| Narmada Medicals Chemist & Druggist<br>Near Kamat Nursing Home, Shantinagar, Ponda - Goa             | 1 |
| Shaikh Pharmacy<br>Karmali Building, Curchorem Goa   | 1 |
| Gawandalkar Chemist & Druggist<br>Mapusa, Bardez - Goa   | 1 |
| Shantadurga Medical Stores Chemist & Druggist<br>Upper Bazar Road, Durgabhat, Ponda - Goa            | 1 |
| ABC Pharmacy Chemist & Druggist  | 1 |
| Shree Medical Stores Chemist & Druggist<br>Kayaji Skyline, Haveli, Curti, Ponda - Goa                | 1 |
| Goa Generic Medical Store Chemist & Druggist<br>Sanguem - Goa  | 1 |
| Bhumika Medical Store<br>Poke wada, Morjim, Pernem - Goa   | 1 |
| Raikar Medical Stores Chemist & Druggist<br>Paveliao Grand New Market, Station Road, Margao - Goa    | 1 |

|   |   |
|---|---|
| Navdurga Chemist & Druggist<br>Goa Velha, Goa   | 2 |
| Medicure Pharmacy Chemist & Druggist<br>Vrindavan Garden, Vankhandem, Ponda - Goa             | 1 |
| Universal Medical Store Chemist & Druggist<br>Baina, Vasco – da - Gama                        | 4 |
| Vira Chemist & Druggist<br>Vithalaur, Kararpur, Bicholim - Goa                                | 1 |
| M/S Shiv Kamakshi Medicals Chemist & Druggist<br>Bhatim Shiroda                               | 2 |
| Rohit Chemist & Druggist<br>Quepem - Goa  | 1 |
| Bismillah Medicine<br>Near jK Bank Budgam   | 1 |
| Chaitanya Medical Store Chemist & Druggist<br>Housing Board Sankhli Goa                       | 1 |
| Royal Chemist & Druggist<br>Near Nehru Stadium, Fatorda, Margao - Goa                         | 1 |
| New Lifeline Medical Store<br>Opposite Almeida High School, Ponda                             | 1 |
| Expert Chemist & Druggist<br>Near Caculo Mall, Panaji - Goa                                   | 1 |
| Shirodkar Medicals Chemist & Druggist<br>Priti Appartments, Bepquepgal, Curchorem - Goa       | 1 |
| Pooja Medical Store Chemist & Druggist<br>Mazal Waddo, Anjuna Bardez - Goa                    | 1 |
| Shanti Medical Store<br>Zuarinagar - Goa  | 1 |
| Shri Krishna Medical Store Chemist & Druggist<br>Chinchinim Bazar, Near Church, Salcete - Goa | 1 |
| Farmacia Slcete<br>Francisco Loyola Rd, New market, Margao - Goa                              | 1 |
| M/S. Vaibhavi Chemist & Druggist<br>Below CMC Community Hall, Cuncolim, Salcete - Goa         | 1 |

|  |   |
|--|---|
| Siddhi Medical Stores Chemist & Druggist<br>Duler, Mapusa - Goa                | 1 |
| Mauli Medical Store Chemist & Druggist<br>Dhargal, Pedne - Goa                 | 1 |
| Farmacia Popular Chemist & Druggist<br>Nipanikar Bhavan, St. Cruz, Ilhas - Goa | 1 |
| Sai Medical Chemist & Druggist<br>Bicholim - Goa                               | 1 |
| Shah Pharma Chemist & Druggist<br>Valpoi Sattari - Goa                         | 1 |

**List of Industries with number of students offered for Training of III B. Pharm Students 2020– 21**

| Name of the Industry  | Number of students |
|---|--------------------|
| Cipla Ltd.<br>Verna Industrial Estate, Verna, Salcette - Goa                        | 05                 |
| Indi Pharma Pvt. Ltd.<br>Bethors Indl. Estate, Bethors, Ponda - Goa                 | 02                 |
| Zydus Cadila<br>Kundaim Industrial Estate, Kundaim - Goa                            | 07                 |
| Indoco Remedies Limited<br>Verna Industrial Estate, Verna - Goa                     | 10                 |
| Unichem Laboratories Ltd.<br>Pilerne, Bardez - Goa                                  | 03                 |
| GAPL<br>Tuem Industrial Estate, Tuem, Pernem - Goa                                  | 03                 |
| Encube Ethicals Pvt. Ltd<br>Madkaim Industrial estate, Madkaim, Marddol, Ponda- Goa | 01                 |
| Micro Labs Limited<br>Verna Industrial Estate, Verna, Salcette - Goa                | 03                 |
| Vergo<br>Verna Industrial Estate, Verna, Salcette - Goa                             | 03                 |
| DCI Pharmaceuticals Pvt. Ltd.<br>Vidyanagar, Margao, Goa                            | 02                 |

|   |    |
|---|----|
| Medizest Pharmaceutical Pvt. Ltd.<br>Verna Industrial Estate, Verna, Goa              | 02 |
| FDC Limited<br>Verna Industrial Estate, Verna, Salcette - Goa                         | 02 |
| Sigma Laboratories Pvt. Ltd.<br>Karaswada, Bardez, Goa                                | 01 |
| Centaur Pharmaceuticals Pvt. Ltd.<br>Tivim Industrial Estate, Karaswada, Mapusa - Goa | 04 |
| Abbott India Limited<br>Verna Industrial Estate, Verna, Salcette - Goa                | 03 |
| Blue Cross Laboratories Pvt. Ltd.<br>Verna Industrial Estate, Verna, Goa              | 03 |
| Lupin Limited<br>Verna Industrial Estate, Verna, Salcette - Goa                       | 06 |
| Sun Pharma<br>Madkai Industrial Estate, Madkai, Ponda, Goa                            | 04 |
| Markson Pharma Ltd.<br>Verna Industrial Estate, Verna, Goa                            | 02 |

**List of Industries with number of students offered for Training of III B. Pharm Students 2021-22**

| Name of the Industry   | Number of students |
|--|--------------------|
| Cipla Ltd.<br>Verna Industrial Estate, Verna, Salcette - Goa                   | 03                 |
| Medispray Laboratories Pvt. Ltd.<br>Kundaim Industrial Estate, Kundaim - Goa   | 06                 |
| Zydus CadilaKundaim Industrial Estate, Kundaim - Goa                           | 03                 |
| Indoco Remedies Limited<br>Verna Industrial Estate, Verna - Goa                | 07                 |
| Unichem Laboratories Ltd.<br>Pilerne, Bardez - Goa                             | 02                 |
| GAPL<br>Tuem Industrial Estate, Tuem, Pernem - Goa                             | 02                 |
| Fertin India Pvt. Ltd.<br>Cuncolim Industrial Estate, Cuncolim, Slacette - Goa | 02                 |

|  |    |
|--|----|
| Micro Labs Limited                               | 03 |
| Verna Industrial Estate, Verna, Salcette - Goa   |    |
| Vergo  | 03 |
| Verna Industrial Estate, Verna, Salcette - Goa   |    |
| DCI Pharmaceuticals Pvt. Ltd.                    | 03 |
| Vidyanagar, Margao, Goa                          |    |
| Medizest Pharmaceutical Pvt. Ltd.                | 04 |
| Verna Industrial Estate, Verna, Goa              |    |
| Amsar Goa Private Limited                        | 04 |
| Colvale Industrial Estate, Colvale, Bardez - Goa |    |
| FDC Limited                                      | 02 |
| Verna Industrial Estate, Verna, Salcette - Goa   |    |
| Sigma Laboratories Pvt. Ltd.                     | 02 |
| Karaswada, Bardez, Goa                           |    |
| Centaur Pharmaceuticals Pvt. Ltd.                | 04 |
| Tivim Industrial Estate, Karaswada, Mapusa - Goa |    |
| Abbott India Limited                             | 04 |
| Verna Industrial Estate, Verna, Salcette - Goa   |    |
| Blue Cross Laboratories Pvt. Ltd.                | 02 |
| Verna Industrial Estate, Verna, Goa              |    |
| Lupin Limited                                    | 06 |
| Verna Industrial Estate, Verna, Salcette - Goa   |    |
| Sanofi India Limited                             | 04 |
| Verna Industrial Estate, Verna, Goa              |    |
| Sun Pharma                                       | 03 |
| Madkai Industrial Estate, Madkai, Ponda, Goa     |    |

### Industrial Tour

#### Industrial visits by B. Pharm. students

Industry visits are arranged for the students of B. Pharm. on a regular basis once in a year so that students can get an opportunity to interact with the industry and get exposure to real life practices.

#### 2.6 Continuous Evaluation Process (10)

Institute Marks : 10.00

As per OC 70.14 of new regulations of Goa University separate marks are allotted for continuous mode of evaluation for theory and practicals. To keep a systematic track of students performance for theory and practical marks are awarded for various academic activities like surprise quizzes, Assignments. Open book examinations, group discussions to infuse confidence in students in the quality of performance both in theory and practicals

| For Theory  | Marks     |
|---|-----------|
| Attendance  | 04        |
| Academic activities like surprise quiz, assignment, open book examination, group discussion | 03        |
| Student Teacher Interaction   | 03        |
| <b>Total</b>  | <b>10</b> |

| For Practicals                              | Marks     |
|---|-----------|
| Attendance                                  | 02        |
| Practical record writing, regular viva-voce | 03        |
| <b>Total</b>                                | <b>05</b> |

#### 2.2.7 Quality of Experiments (20)

Institute Marks : 20.00

The institution is well equipped with all the basic facilities plus sophisticated manufacturing and analytical facilities. The students are explained with the construction and working of each machines/instruments. For ex: different stages of tabletting right from the stage of sieving till final compression, various in preformulation parameters, precompression and post compression evaluation parameters are dealt in detail. More importance is given on formulation/evaluation of Novel Drug Delivery Systems, preparation of sample for FTIR, interpretation of the FTIR spectra obtained, and possible drug excipient interactions. Handling of various laboratory animals, feeding, dose administration, maintenance of health of the experimental animals etc. A great degree of awareness is created about various chemical hazards, fire hazards, mechanical hazards plus the preventive measures to be taken. The students are enlightened about the importance of documentation, product and process validations in detail.

| Equipment                                  | Make/Model       | Subject                                    | Name of the experiments  |
|--|------------------|--|--|
| Double beam UV – Visible Spectrophotometer | Shimadzu UV 1800 | Instrumental methods of analysis (Sem-VII) | 1. Determination of lambda max and effect of solvents on lambda max.<br>2. Assay of paracetamol.<br>3. Simultaneous estimation of ibuprofen and paracetamol. |
| Spectro-fluorimeter                        | ELICO SL - 174   | Instrumental methods of analysis (Sem-VII) | Estimation of quinine sulphate by fluorimetry study of quenching of fluorescence.  |
| Colorimeter CLI57                          | ELICO 5.5L SOH   | Instrumental methods of analysis (Sem-VII) | 1. Estimation of dextrose by colorimetry.<br>2. Estimation of sulphanilamide by colorimetry.   |
| HPLC                                       | Cyber lab LC-100 | Instrumental methods of analysis (Sem-VII) | Demo experiment  |
| pH meter                                   | ELICO LI 120     | Pharmaceutical analysis (Sem-I)            | Calibration and titration of strong acids v/s strong base  |
| Conductivity meter                         | ELICO CM - 180   | Pharmaceutical analysis (Sem-I)            | Calibration and titration of<br>1. Strong acid v/s strong base<br>2. Mixture of strong acid<br>3. Weak acid v/s strong base                                  |

|  |                            |  |   |
|--|----------------------------|--|---|
| Microscope                                 | Radical RM - 3             | Pharmaceutical microbiology<br>(Sem-III) | 1. Monochrome staining<br>2. Gram staining<br>3. Acid fast staining<br>4. Motility test   |
| Thermostatic oven                          | Pathak Electrical Works    | Pharmaceutical microbiology<br>(Sem-III) | Sterilization of laboratory glassware   |
| Incubator                                  | Pathak Electrical Works    | Pharmaceutical microbiology<br>(Sem-III) | Streaking, development of pure cultures   |
| Colony counter                             | Lapiz ®                    | Pharmaceutical microbiology<br>(Sem-III) | Enumeration of bacteria- viable count method  |
| Colorimeter                                | Elico CL - 157             | Pharmaceutical microbiology<br>(Sem-III) | Turbidometric estimation of bacteria  |
| Sonicator                                  | Labline                    | Pharmaceutical microbiology<br>(Sem-III) |   |
| Rotary shaker                              | Remi equipments            | Pharmaceutical microbiology<br>(Sem-III) | Preparation of media  |
| Electrical waterbath                       | Pathak Electrical Works    | Pharmaceutical microbiology<br>(Sem-III) | Preparation of media  |
| Autoclave                                  | META Labs                  | Pharmaceutical microbiology<br>(Sem-III) | Sterilization of media and laboratory glasswares.   |
| Antibiotic zone reader                     | Pathak Electrical Works    | Pharmaceutical microbiology<br>(Sem-III) | Determination of zone of inhibition by anti-biotic.   |
| Orbital shaker                             |                            | Pharmaceutical microbiology<br>(Sem-III) | Preparation of media  |
| Microscope                                 | Radical RM – 2B and RM - 3 | Herbal drug technology<br>(Sem-IV)       | 1. Microscopic studies of powders<br>2. Quantitative microscopy   |
| Thermostatic oven                          | Pathak Electrical Works    | Herbal drug technology<br>(Sem-IV)       | Loss on drying  |
| Camera Lucida                              | Radical                    | Pharmacognosy (Sem-IV)                   | 1. Stomatal index<br>2. Quantitative microscopy   |
| Double beam UV – Visible Spectrophotometer | Shimadzu UV 1800           | Practice School (Sem-VII) Pharmaceutics  | 1. Determination of lambda max and preparation of calibration curve of drugs.<br>2. Evaluation of prepared formulation for drug release |

|                                   |  |   |  |
|-----------------------------------|--|---|--|
| Tablet Dissolution Test Apparatus | Veego                                  | Practice School (Sem-VII) – Pharmaceutics<br>Industrial Pharmacy-I (Semester V) | Evaluation of drug release from prepared formulation of tablets.<br>Evaluation of Paracetamol Tablet I.P/ Aspirin Tablet I.P<br>Evaluation of Marketed Paracetamol/ Aspirin Tablet |
| Cold centrifuge                   |  | M. Pharm. Projects  | Research purpose   |
| Tissue Homogenizer                |  | Basic pharmacology research   | Research purpose   |
| Actophotometer                    | Bharat Chemicals                       | Pharmacology -I   | Locomotor activity   |
| Rotarod                           | Satish model                           | Pharmacology -I   | Muscle relaxant activity   |
| Eddy's hot plate                  | Bharat Chemicals                       | Pharmacology -II  | Analgesic activity   |
| Spirometer                        | Bharat Chemicals                       | HAP -II   | Measurement of breathing   |
| Pole climb apparatus              | Bharat Chemicals                       | Pharmacology research   | Cognition  |
| Electro convulse meter            | Bharat Chemicals                       | Pharmacology research   | Epilepsy   |
| Tablet disintegration apparatus   | DBK                                    | Industrial Pharmacy-I (Semester-V)<br>B. Pharm.)                                | Evaluation of Paracetamol/ Aspirin Tablet I.P<br>Evaluation of Marketed Tablets  |
| Tablet dissolution apparatus      | DBK                                    | Industrial Pharmacy-I (Semester-V)<br>B. Pharm.)                                | Preparation and drug release study of aspirin and paracetamol tablets.   |
| Tap density apparatus             | Thermonik Campbell Electronics TDA - 2 | Physical Pharmaceutics-II (Semester-IV)<br>B. Pharm.)                           | To determine tapped density/ Bulk Density/ Compressibility of Powders  |
| Tablet coating apparatus          |  | Industrial Pharmacy-I Semester-V<br>B. Pharm.)                                  | Preparation and coating of granules and tablets of Paracetamol / Aspirin   |
| Brookfield viscometer             | Brookfield                             | Physical Pharmaceutics-II (Semester IV<br>B. Pharm.)                            | Determination of Viscosity of different liquids using Brookfield Viscometer  |

## 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

3.1.1 Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses) (5)

Institute Marks : 5.00

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

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C1 01 | Course Year : | 2015-2016 |
|---------------|-------|---------------|-----------|

| Course Name | Statements  |
|-------------|---|
| C1 01.1     | At the end of the course the student should be able to: Classify various pharmaceutical dosage forms based on its route of administration |

|         |  |
|---------|--|
| C1 01.2 | Implement the professional way of handling the prescription.                       |
| C1 01.3 | Discuss about pharmaceutical incompatibilities and pharmaceutical calculations.    |
| C1 01.4 | Analyse professional way of compounding and dispensing pharmaceutical dosage forms |
| C1 01.5 | Discuss about the various branches of Pharmacy                                     |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C1 02 | Course Year : | 2015-2016 |
|---------------|-------|---------------|-----------|

| Course Name | Statements  |
|-------------|---|
| C1 02.1     | At the end of the course the student should be able to: Explain the concept, scope of community pharmacist and the role of pharmacist in patient counseling, compliance and maintaining medication records. |
| C1 02.2     | Describe and classify hospitals as an organization, role and functions of hospital pharmacist and duties of hospital pharmacy.  |
| C1 02.3     | Describe various drug distribution systems and drug information services for improved patient care with the use of computers.   |
| C1 02.4     | Outline the various purchasing procedures and inventory control techniques in hospital pharmacies   |
| C1 02.5     | Describe the dispensing of drugs including controlled substances and medicinal gases, responding to minor ailments, patient counselling for improved patient care in community set up.                      |
| C1 02.6     | Summarize the use sterilization and disposal of various surgical dressings, instruments and health accessories in hospitals   |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C2 01 | Course Year : | 2016-2017 |
|---------------|-------|---------------|-----------|

| Course Name | Statements |
|-------------|------------|
|-------------|------------|

|         |   |
|---------|---|
| C2 01.2 | Classify, identify, isolate and preserve various types of microbes like bacteria, viruses fungi etc.  |
| C2 01.3 | Explain various types of microscopy and its application in microbiology   |
| C2 01.4 | Describe principles, working and application of various sterilization techniques  |
| C2 01.5 | Describe fundamentals of microbial genetics, concept of mutation and anti-microbial drug resistance.  |
| C2 01.6 | Outline the pathogenesis and therapies of various infectious diseases   |
| C2 01.1 | At the end of the course the student should be able to: Summarize the history of microbiology and its significance in the pharmaceutical industry |

|               |  |               |           |
|---------------|--|---------------|-----------|
| Course Name : | C2 02  | Course Year : | 2016-2017 |
| Course Name   | <b>Statements</b>  |               |           |
| C2 02.1       | At the end of the course the student should be able to: Describe the structural organization and physiology of nervous tissue. |               |           |
| C2 02.2       | Explain the structural organization and functions of various parts of the human brain.   |               |           |
| C2 02.3       | Explain the working pattern of spinal cord.  |               |           |
| C2 02.4       | Describe coordinated working pattern of special senses.  |               |           |
| C2 02.5       | Comprehend pathophysiology of diseases of Nervous system and special senses.   |               |           |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C3 01 | Course Year : | 2017-2018 |
|---------------|-------|---------------|-----------|

| Course Name | Statements  |
|-------------|---|
| C3 01.1     | At the end of the course the student should be able to: Get acquainted with the role of crude drugs in national economy, its importance and status. |
| C3 01.2     | Recognise the principles of different traditional systems of medicine   |
| C3 01.3     | Describe different classes of secondary metabolites   |
| C3 01.4     | Learn and apply conventional and modern extraction techniques used for crude drugs extraction   |
| C3 01.5     | Practice different evaluation methods of crude drugs  |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C3 02 | Course Year : | 2017-2018 |
|---------------|-------|---------------|-----------|

| Course Name | Statements   |
|-------------|--|
| C3 02.1     | At the end of the course the student should be able to: Describe the concepts of bioassay.   |
| C3 02.2     | Classify and explain mechanism of action, pharmacological actions and adverse reactions of drugs acting on central nervous system. |
| C3 02.3     | Explain mechanism of action and pharmacological actions of autacoids.  |
| C3 02.4     | Comprehend the principles of toxicology and treatment of various poisonings  |
| C3 02.5     | Describe the behavioural, psychological, physical health and social effects of psychoactive substances on the persons.             |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C4 01 | Course Year : | 2018-2019 |
|---------------|-------|---------------|-----------|

| Course Name | Statements |
|-------------|------------|
|-------------|------------|

|         |   |
|---------|---|
| C4 01.1 | At the end of the course the student should be able to: Explain the fundamental knowledge of the principle and theories of various spectroscopic techniques like UV, IR, NMR, MASS, AES, AAS. |
| C4 01.2 | Describe the concept, instrumentation and operations of spectroscopic tools   |
| C4 01.3 | Distinguish the specialities and applications of various spectroscopic methods  |
| C4 01.4 | Measure and estimate the pharmaceutical compounds using spectroscopic data  |
| C4 01.5 | Summarize, interpret and predict the structure of pharmaceutical compounds using spectroscopic data   |

|               |       |               |           |
|---------------|-------|---------------|-----------|
| Course Name : | C4 02 | Course Year : | 2018-2019 |
|---------------|-------|---------------|-----------|

| Course Name | Statements  |
|-------------|---|
| C4 02.1     | At the end of the course the student should be able to: Design dosage forms based on the concept of pharmacokinetics and pharmacodynamics.                    |
| C4 02.2     | Comprehend the concept of distribution, biotransformation and elimination in the body   |
| C4 02.3     | Integrate the concept of enzymes in the clinical application of drug.   |
| C4 02.4     | Design the dosage forms based on the concept of bioavailability and bioequivalence.   |
| C4 02.5     | Integrate the concept of IV/IVC and explain its significance  |
| C4 02.6     | Plan, design and incorporate the in-vitro dissolution studies for various drugs as per the standards of official monographs to formulate various dosage forms |

## 1 . course name : C101

| Course         | PO1         | PO2         | PO3         | PO4         | PO5         | PO6         | PO7         | PO8         | PO9         | PO10        | PO11        |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C101.1         | 3 ▼         | 2 ▼         | 1 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 2 ▼         |
| C101.2         | 2 ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         | - ▼         | - ▼         | 1 ▼         | - ▼         | 1 ▼         |
| C101.3         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         |
| C101.4         | 3 ▼         | 2 ▼         | 2 ▼         | 1 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         |
| C101.5         | 3 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         | - ▼         | - ▼         | 1 ▼         | - ▼         | 1 ▼         |
| <b>Average</b> | <b>3.00</b> | <b>2.00</b> | <b>2.00</b> | <b>1.00</b> | <b>0.00</b> | <b>1.00</b> | <b>0.00</b> | <b>0.00</b> | <b>1.00</b> | <b>0.00</b> | <b>1.00</b> |

## 2 . course name : C102

| Course         | PO1         | PO2         | PO3         | PO4         | PO5         | PO6         | PO7         | PO8         | PO9         | PO10        | PO11        |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C102.1         | 2 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | 3 ▼         | 2 ▼         | - ▼         | 3 ▼         | - ▼         | 1 ▼         |
| C102.2         | 3 ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         |
| C102.3         | 2 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | 3 ▼         | - ▼         | - ▼         |
| C102.4         | 2 ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | 1 ▼         |
| C102.5         | 3 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 3 ▼         | 2 ▼         | 2 ▼         | 3 ▼         | - ▼         | 1 ▼         |
| C102.6         | 2 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         |
| <b>Average</b> | <b>2.00</b> | <b>2.00</b> | <b>0.00</b> | <b>2.00</b> | <b>0.00</b> | <b>2.00</b> | <b>2.00</b> | <b>2.00</b> | <b>3.00</b> | <b>0.00</b> | <b>1.00</b> |

## 3 . course name : C201

| Course         | PO1         | PO2         | PO3         | PO4         | PO5         | PO6         | PO7         | PO8         | PO9         | PO10        | PO11        |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C201.2         | 3 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         | - ▼         |
| C201.3         | 3 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         |
| C201.4         | 3 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 1 ▼         |
| C201.5         | 3 ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 2 ▼         | - ▼         | - ▼         |
| C201.6         | 3 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 3 ▼         | 2 ▼         | - ▼         |
| C201.1         | 3 ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | - ▼         | 2 ▼         | 2 ▼         | - ▼         |
| <b>Average</b> | <b>3.00</b> | <b>0.00</b> | <b>2.00</b> | <b>2.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>2.00</b> | <b>2.00</b> | <b>1.00</b> |

## 4 . course name : C202

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|        |     |     |     |     |     |     |     |     |     |      |      |

|                |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   |   |   |  |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---|--|
| C202.1         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 1           | ▼           | -           | ▼ | 1 | ▼ |  |
| C202.2         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 1           | ▼ | - | ▼ |  |
| C202.3         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 1           | ▼ | - | ▼ |  |
| C202.4         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 1           | ▼ | - | ▼ |  |
| C202.5         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 1           | ▼ | - | ▼ |  |
| <b>Average</b> | <b>2.00</b> | <b>0.00</b> | <b>1.00</b> | <b>0.00</b> | <b>1.00</b> |   |   |   |  |

## 5 . course name : C301

| Course         | PO1         | PO2         | PO3         | PO4         | PO5         | PO6         | PO7         | PO8         | PO9         | PO10        | PO11        |   |   |   |   |   |   |   |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---|---|---|---|---|
| C301.1         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 2           | ▼           | -           | ▼ | - | ▼ | - | ▼ | 2 | ▼ |
| C301.2         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | 2           | ▼           | -           | ▼ | - | ▼ | - | ▼ | 2 | ▼ |
| C301.3         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | 2 | ▼ | - | ▼ |
| C301.4         | 2           | ▼           | 2           | ▼           | 2           | ▼           | 2           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | - | ▼ | - | ▼ |
| C301.5         | 2           | ▼           | 2           | ▼           | 2           | ▼           | 2           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | - | ▼ | - | ▼ |
| <b>Average</b> | <b>2.00</b> | <b>2.00</b> | <b>2.00</b> | <b>2.00</b> | <b>0.00</b> | <b>2.00</b> | <b>0.00</b> | <b>0.00</b> | <b>2.00</b> | <b>0.00</b> | <b>2.00</b> |   |   |   |   |   |   |   |

## 6 . course name : C302

| Course         | PO1         | PO2         | PO3         | PO4         | PO5         | PO6         | PO7         | PO8         | PO9         | PO10        | PO11        |   |   |   |   |   |   |   |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---|---|---|---|---|
| C302.1         | 2           | ▼           | -           | ▼           | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | - | ▼ | 1 | ▼ |
| C302.2         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | 1 | ▼ | - | ▼ |
| C302.3         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | 1 | ▼ | - | ▼ |
| C302.4         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | 1 | ▼ | - | ▼ |
| C302.5         | 2           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼           | -           | ▼ | - | ▼ | 1 | ▼ | - | ▼ |
| <b>Average</b> | <b>2.00</b> | <b>0.00</b> | <b>2.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>1.00</b> | <b>0.00</b> | <b>1.00</b> |   |   |   |   |   |   |   |

## 7 . course name : C401

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 |   |   |   |   |   |   |   |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|---|---|---|---|---|---|---|
| C401.1 | 3   | ▼   | -   | ▼   | -   | ▼   | 1   | ▼   | -   | ▼    | -    | ▼ | - | ▼ | - | ▼ | 2 | ▼ |
| C401.2 | 3   | ▼   | -   | ▼   | -   | ▼   | 2   | ▼   | -   | ▼    | -    | ▼ | - | ▼ | - | ▼ | 2 | ▼ |
| C401.3 | 3   | ▼   | -   | ▼   | 2   | ▼   | -   | ▼   | -   | ▼    | -    | ▼ | - | ▼ | - | ▼ | 2 | ▼ |
| C401.4 | 3   | ▼   | -   | ▼   | 2   | ▼   | 2   | ▼   | -   | ▼    | -    | ▼ | - | ▼ | - | ▼ | 2 | ▼ |

|         |      |   |      |   |      |   |      |   |      |   |      |   |      |   |      |   |      |      |
|---------|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|------|
| C401.5  | 3    | ▼ | -    | ▼ | 2    | ▼ | -    | ▼ | -    | ▼ | -    | ▼ | -    | ▼ | -    | ▼ | 2    | ▼    |
| Average | 3.00 |   | 0.00 |   | 2.00 |   | 2.00 |   | 0.00 |   | 0.00 |   | 0.00 |   | 0.00 |   | 0.00 | 2.00 |

## 8 . course name : C402

| Course  | PO1  | PO2 | PO3  | PO4 | PO5  | PO6 | PO7  | PO8 | PO9  | PO10 | PO11 |   |      |   |      |   |      |      |
|---------|------|-----|------|-----|------|-----|------|-----|------|------|------|---|------|---|------|---|------|------|
| C402.1  | 3    | ▼   | 3    | ▼   | 3    | ▼   | 2    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | 1    | ▼    |
| C402.2  | 3    | ▼   | 2    | ▼   | 2    | ▼   | -    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | 1    | ▼    |
| C402.3  | 2    | ▼   | -    | ▼   | 3    | ▼   | 1    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | -    | ▼    |
| C402.4  | 2    | ▼   | 3    | ▼   | 2    | ▼   | -    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | 1    | ▼    |
| C402.5  | 3    | ▼   | -    | ▼   | -    | ▼   | -    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | -    | ▼    |
| C402.6  | 2    | ▼   | 3    | ▼   | 3    | ▼   | 2    | ▼   | -    | ▼    | -    | ▼ | -    | ▼ | -    | ▼ | 1    | ▼    |
| Average | 3.00 |     | 3.00 |     | 3.00 |     | 2.00 |     | 0.00 |      | 0.00 |   | 0.00 |   | 0.00 |   | 0.00 | 1.00 |

## 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 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1.1.1 T  | 3   |     | 2   |     | 2   |     | 1   |     | 0   |      | 1    |
| 1.1.2 T  | 3   |     | 0   |     | 2   |     | 0   |     | 0   |      | 0    |
| 1.1.3 T  | 2   |     | 0   |     | 2   |     | 0   |     | 0   |      | 2    |
| 1.1.4 T  | 1   |     | 0   |     | 0   |     | 0   |     | 1   |      | 0    |
| 1.1.5 T  | 1   |     | 0   |     | 0   |     | 0   |     | 1   |      | 1    |
| 1.1.1 P  | 3   |     | 3   |     | 3   |     | 1   |     | 0   |      | 1    |
| 1.1.2 P  | 3   |     | 2   |     | 2   |     | 0   |     | 0   |      | 0    |
| 1.1.3 P  | 1   |     | 2   |     | 1   |     | 2   |     | 0   |      | 1    |
| 1.1.4 P  | 1   |     | 1   |     | 1   |     | 0   |     | 0   |      | 1    |
| 1.1.6 BT | 2   |     | 0   |     | 0   |     | 0   |     | 0   |      | 2    |
| 1.1.6 MT | 0   |     | 1   |     | 1   |     | 0   |     | 0   |      | 2    |
| 1.1.6 BP | 1   |     | 1   |     | 0   |     | 2   |     | 0   |      | 2    |
| 1.2.1 P  | 3   |     | 1   |     | 0   |     | 2   |     | 0   |      | 1    |
| 1.2.2 P  | 3   |     | 2   |     | 0   |     | 2   |     | 0   |      | 1    |
| 1.2.3 P  | 2   |     | 1   |     | 0   |     | 0   |     | 1   |      | 1    |

|         |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|
| 1.2.4 P | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1.2.6 P | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 1.2.1 T | 3 | 2 | 2 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 1 |
| 1.2.2 T | 2 | 2 | 0 | 2 | 0 | 2 | 2 | 2 | 3 | 0 | 1 |
| 1.2.3 T | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1.2.4 T | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| 1.2.5 T | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.2.6 T | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 1.3.1 T | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1.3.2 T | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.3.3 T | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 1 |
| 1.3.4 T | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.3.5 T | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.3.6 T | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.3.7 T | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1.3.1 P | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1.3.2 P | 2 | 3 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1.3.3 P | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 1 | 1 |
| 1.3.4 P | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.3.5 P | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1.3.6 P | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.4.1 P | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1.4.2 P | 2 | 3 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1.4.3 P | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.4.5 P | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1.4.6 P | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.4.1 T | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1.4.2 T | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.4.3 T | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| 1.4.4 T | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.4.5 T | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

|         |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.6 T | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.4.7 T | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 0 | 1 | 1 |
| 1.5.1 T | 3 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1.5.2 T | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 3 |
| 1.5.3 T | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| 1.5.4 T | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.5.5 T | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.5.6 T | 2 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 2 |
| 1.5.7 T | 3 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 1.5.3 P | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 |
| 1.5.4 P | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 |
| 1.5.5 P | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1.5.6 P | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1.5.7 P | 3 | 2 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 1.6.1 P | 3 | 3 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1.6.3 P | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 2 | 2 |
| 1.6.4 P | 3 | 3 | 3 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1.6.5 P | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1.6.6 P | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 |
| 1.6.1 T | 3 | 3 | 3 | 2 | 0 | 2 | 2 | 0 | 2 | 3 | 0 |
| 1.6.2 T | 2 | 2 | 3 | 2 | 2 | 0 | 1 | 0 | 0 | 1 | 0 |
| 1.6.3 T | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1.6.4 T | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| 1.6.5 T | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.6.6 T | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 |
| 1.6.7 T | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 3 | 3 | 0 | 1 |
| 1.7.1 T | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1.7.2 T | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1.7.3 T | 1 | 3 | 2 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 1 |
| 1.7.4 T | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.7.5 T | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

|         |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.6 T | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.7.7 T | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.7.1 P | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1.7.3 P | 1 | 3 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1.7.4 P | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 2 |   |
| 1.7.6 P | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |   |
| 1.7.7 P | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |   |
| 1.8.1 P | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1.8.2 P | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1.8.3 P | 2 | 2 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1.8.4 P | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 |
| 1.8.5 P | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 |
| 1.8.6 P | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1.8.1 T | 3 | 2 | 2 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1.8.2 T | 3 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1.8.3 T | 2 | 2 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1.8.4 T | 2 | 2 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 2 |   |
| 1.8.5 T | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 3 |
| 1.8.6 T | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |

**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

According to prescribed pattern of the University, the evaluation of students for each semester of B. Pharm. program is based on the University examination (regular and/or repeat) held at the end of each semester and one internal test is conducted during the semester.

Duration of the University examination, for each course for theory subject is 02 hours and 04 hours for practical examination. Duration of the internal assessment for each course is of 1 hour for theory and 03 hours for practical. The assessment process is divided into two parts:

- o Internal Assessment
- o End Semester Examination (University Assessment )

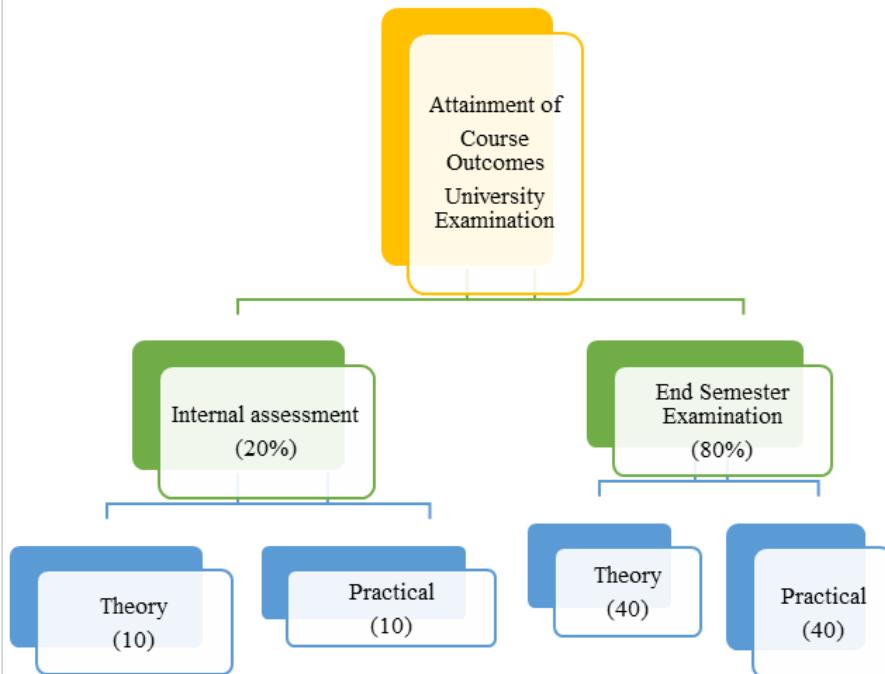
Each paper is of 50 marks, out of which 10 marks in each paper are assigned to internal assessment/ internal tests and 40 marks are assigned to end semester examination conducted by the University at the end of the semester for each course as theory subject and practicals separately.

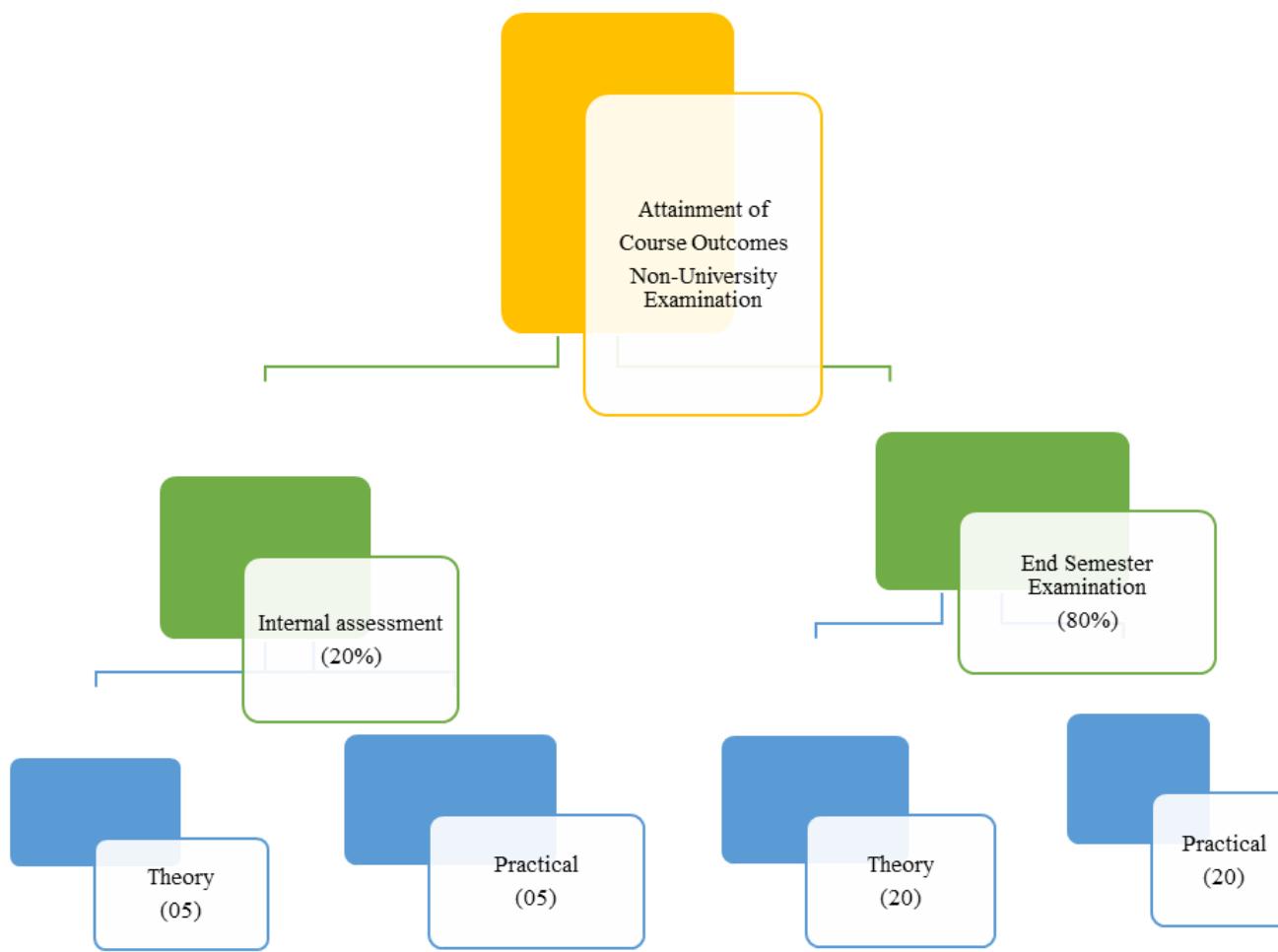
Adhering to the University norms, 20% weightage is given to the Internal Assessment and 80% weightage is given to the University End Semester Assessment for calculations of attainment of course outcomes.

Internal Assessment: The course outcomes are calculated based on the performance of students in the internal examination.

One internal examination is conducted per semester as per the University norms. Internal examination pattern is designed to examine the students for all course outcomes of that course. This includes internal test papers, practical synopsis, viva-voce, laboratory assessment and practical record books. This contributes 20% in the assessment of attainment level for measuring course outcomes. The question papers of the internal examinations are set by taking into account various levels of learning.

End Semester Examination: It is also a tool for assessment of course outcomes. This examination is conducted by the University at the end of each semester. It consists of descriptive type questions inclusive of long essays, short essays and short answers. This contributes 80% in the assessment of attainment level for measuring course outcomes.





Schematic representation of Attainment of Course Outcomes

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

Institute Marks : 30.00

- As passing marks for the the University examination are 50 % of allotted marks in each course, we have set a target i.e. 55%, [higher than passing percentage (50%) as the target attainment level for all courses spread over 8 semesters].
- Calculation of attainment level for set target is done as follows-

If 60% of students have obtained marks above target then the attainment level is considered as **low** level i.e. **1**.

If 70% of students have obtained marks above target then the attainment level is considered as **medium** level i.e. **2**.

If 80% or more than 80% of students have obtained marks above target then the attainment level is considered as **high** level i.e. **3**.

The weightages of internal examination marks and end semester examination marks were decided by taking into consideration Goa university curriculum and guidelines by organizational bodies, and it was decided to calculate the CO attainments as 80% weightage to the End Semester Examination (University) and 20% weightage to the Internal Examination.

for example, For Course 'A' if attainment level is 3 in both ESE and IA, final attainment level will be -

80% of 3 (ESE) + 20% of 3 (IA) =  $2.4 + 0.6 = 3$  (Final attainment level for Course 'A')

ESE: End Semester Examination

IA: Internal Assessment

#### Attainment of Course Outcomes B. Pharm batch 2017-2021 [SEM I-VIII]

| Course Name   | Course Code | Set Attainment Level (Marks %) | Target Attainment level (TAL) |     |             | Achieved Attainment Level (AAL) |     |             |
|---|-------------|--------------------------------|-------------------------------|-----|-------------|---------------------------------|-----|-------------|
|   |             |                                | IA                            | ESE | Final (TAL) | IA                              | ESE | Final (AAL) |
| 1.1.1 T<br>Pharmaceutics-I<br>(Dispensing & General Pharmacy) | 1.1.1 T     | 55                             | 3                             | 1.2 | 1.56        | 1                               | 0   | 0.2         |
| 1.1.2 T<br>Pharmaceutical Organic Chemistry-I                 | 1.1.2 T     | 55                             | 3                             | 1.2 | 1.56        | 0                               | 0   | 0           |
| 1.1.3 T<br>Pharmaceutical Inorganic Chemistry                 | 1.1.3 T     | 55                             | 3                             | 1.2 | 1.56        | 2                               | 0   | 0           |
| 1.1.4 T<br>Anatomy, Physiology & Pathophysiology-I            | 1.1.4 T     | 55                             | 3                             | 1.2 | 1.56        | 0                               | 0   | 0.4         |
| 1.1.5 T<br>Health Education & Environmental Studies           | 1.1.5 T     | 55                             | 3                             | 1.2 | 1.56        | 1                               | 3   | 2.6         |
| 1.1.6 T<br>Remedial Biology                                   | 1.1.6 BT    | 55                             | 3                             | 1.2 | 1.56        | 3                               | 3   | 3           |

|   |          |    |   |     |      |   |   |     |
|---|----------|----|---|-----|------|---|---|-----|
| 1.1.6 T<br>Remedial Mathematics                     | 1.1.6 MT | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.2.1 T<br>Pharmaceutics-II                         | 1.2.1 T  | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |
| 1.2.2 T<br>Community & Hospital Pharmacy            | 1.2.2 T  | 55 | 3 | 1.2 | 1.56 | 0 | 1 | 0.8 |
| 1.2.3 T<br>Pharmaceutical Organic Chemistry-II      | 1.2.3 T  | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |
| 1.2.4 T<br>Biochemistry – I                         | 1.2.4 T  | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |
| 1.2.5 T<br>Anatomy, Physiology & Pathophysiology-II | 1.2.5 T  | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.2.6 T<br>Pharmacognosy- I                         | 1.2.6 T  | 55 | 3 | 1.2 | 1.56 | 2 | 1 | 1.2 |
| 1.3.1 T<br>Pharmaceutics –III                       | 1.3.1 T  | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.3.2 T<br>Physical Pharmaceutics-I                 | 1.3.2 T  | 55 | 3 | 1.2 | 1.56 | 0 | 1 | 0.8 |
| 1.3.3 T<br>Pharmaceutical Microbiology              | 1.3.3 T  | 55 | 3 | 1.2 | 1.56 | 2 | 0 | 0.4 |
| 1.3.4 T<br>Pharmaceutical Organic Chemistry-III     | 1.3.4 T  | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |

|  |         |    |   |     |      |   |   |     |
|--|---------|----|---|-----|------|---|---|-----|
| 1.3.5 T<br>Anatomy, Physiology & Pathophysiology-III | 1.3.5 T | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.3.6 T<br>Pharmaceutical Analysis - I               | 1.3.6 T | 55 | 3 | 1.2 | 1.56 | 3 | 1 | 1.4 |
| 1.3.7 T<br>Biostatistics                             | 1.3.7 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.4.1 T<br>Pharmaceutics - IV                        | 1.4.1 T | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |
| 1.4.2 T<br>Physical Pharmaceutics-II                 | 1.4.2 T | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.4.3 T<br>Pharmaceutical Organic Chemistry          | 1.4.3 T | 55 | 3 | 1.2 | 1.56 | 2 | 0 | 0.4 |
| 1.4.4 T<br>Anatomy, Physiology Pathophysiology-IV    | 1.4.4 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.4.5 T<br>Pharmacology-I                            | 1.4.5 T | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.4.6 T<br>Computer Applications                     | 1.4.6 T | 55 | 3 | 1.2 | 1.56 | 3 | 1 | 1.4 |
| 1.4.7 T<br>Pharmaceutical Marketing & Management     | 1.4.7 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.5.1 T<br>Pharmaceutics - V                         | 1.5.1 T | 55 | 3 | 1.2 | 1.56 | 2 | 1 | 1.2 |
| 1.5.2 T<br>Pharmaceutical Engineering-I              | 1.5.2 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.5.3 T<br>Biochemistry – II                         | 1.5.3 T | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |

|  |         |    |   |     |      |   |   |     |
|--|---------|----|---|-----|------|---|---|-----|
| 1.5.4 T<br>Medicinal Chemistry-I         | 1.5.4 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.5.5 T<br>Pharmacology-II               | 1.5.5 T | 55 | 3 | 1.2 | 1.56 | 1 | 0 | 0.2 |
| 1.5.6 T<br>Pharmacognosy -II             | 1.5.6 T | 55 | 3 | 1.2 | 1.56 | 3 | 1 | 1.4 |
| 1.5.7 T<br>Pharmaceutical Analysis - II  | 1.5.7 T | 55 | 3 | 1.2 | 1.56 | 2 | 3 | 0.2 |
| 1.6.1 T<br>Cosmeticology – I             | 1.6.1 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.2 T<br>Pharmaceutical Engineering-II | 1.6.2 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.3 T<br>Biotechnology                 | 1.6.3 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.4 T<br>Medicinal Chemistry-II        | 1.6.4 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.5 T<br>Pharmacology-III              | 1.6.5 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.6 T<br>Pharmacognosy -III            | 1.6.6 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.7 T<br>Pharmaceutical Jurisprudence  | 1.6.7 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.7.1 T<br>Pharmaceutics-VI              | 1.7.1 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |

|   |         |    |   |     |      |   |   |     |
|---|---------|----|---|-----|------|---|---|-----|
| 1.7.2 T<br>Biopharmaceutics & Pharmacokinetics -I   | 1.7.2 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.7.3 T<br>Cosmeticology - II                       | 1.7.3 T | 55 | 3 | 1.2 | 1.56 | 3 | 2 | 2.2 |
| 1.7.4 T<br>Medicinal Chemistry-III                  | 1.7.4 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.7.5 T<br>Pharmacology -IV                         | 1.7.5 T | 55 | 3 | 1.2 | 1.56 | 3 | 1 | 1.4 |
| 1.7.6 T<br>Pharmacognosy – IV                       | 1.7.6 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.7.7 T<br>Pharmaceutical Analysis - III            | 1.7.7 T | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.8.1 T<br>Pharmaceutics - VII                      | 1.8.1 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.8.2 T<br>Biopharmaceutics & Pharmacokinetics - II | 1.8.2 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.8.3 T<br>Medicinal Chemistry-IV                   | 1.8.3 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.8.4 T<br>Pharmacognosy- V                         | 1.8.4 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.8.5 T<br>Clinical Pharmacology                    | 1.8.5 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |

|  |          |    |   |     |      |   |   |     |
|--|----------|----|---|-----|------|---|---|-----|
| 1.8.6 T<br>Pharmaceutical Analysis - IV                    | 1.8.6 T  | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.1.1 P<br>Pharmaceutics-I (Dispensing & General Pharmacy) | 1.1.1 P  | 55 | 3 | 1.2 | 1.56 | 3 | 1 | 1.4 |
| 1.1.2 P<br>Pharmaceutical Organic Chemistry-I              | 1.1.2 P  | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.1.3 P<br>Pharmaceutical Inorganic Chemistry              | 1.1.3 P  | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.1.4 P<br>Anatomy, Physiology & Pathophysiology-I         | 1.1.4 P  | 55 | 3 | 1.2 | 1.56 | 0 | 3 | 2.4 |
| 1.1.6 P<br>Remedial Biology                                | 1.1.6 BP | 55 | 3 | 1.2 | 1.56 | 0 | 0 | 0   |
| 1.2.1 P<br>Pharmaceutics-II                                | 1.2.1 P  | 55 | 3 | 1.2 | 1.56 | 1 | 2 | 1.8 |
| 1.2.2 P<br>Community & Hospital Pharmacy                   | 1.2.2 P  | 55 | 3 | 1.2 | 1.56 | 2 | 0 | 0.4 |
| 1.2.3 P<br>Pharmaceutical Organic Chemistry-II             | 1.2.3 P  | 55 | 3 | 1.2 | 1.56 | 3 | 2 | 2.2 |
| 1.2.4 P<br>Biochemistry – I                                | 1.2.4 P  | 55 | 3 | 1.2 | 1.56 | 3 | 2 | 0.2 |
| 1.2.6 P<br>Pharmacognosy -I                                | 1.2.6 P  | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |

|  |         |    |   |     |      |   |   |     |
|--|---------|----|---|-----|------|---|---|-----|
| 1.3.1 P<br>Pharmaceutics -III                        | 1.3.1 P | 55 | 3 | 1.2 | 1.56 | 1 | 3 | 2.6 |
| 1.3.2 P<br>Physical Pharmaceutics-I                  | 1.3.2 P | 55 | 3 | 1.2 | 1.56 | 0 | 3 | 2.4 |
| 1.3.3 P<br>Pharmaceutical Microbiology               | 1.3.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.3.4 P<br>Pharmaceutical Organic Chemistry-III      | 1.3.4 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.3.5 P<br>Anatomy, Physiology & Pathophysiology-III | 1.3.5 P | 55 | 3 | 1.2 | 1.56 | 3 | 2 | 2.2 |
| 1.3.6 P<br>Pharmaceutical Analysis - I               | 1.3.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.4.1 P<br>Pharmaceutics - IV                        | 1.4.1 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.4.2 P<br>Physical Pharmaceutics                    | 1.4.2 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.4.3 P<br>Pharmaceutical Organic Chemistry          | 1.4.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.4.5 P<br>Pharmacology                              | 1.4.5 P | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.4.6 P<br>Computer Applications                     | 1.4.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 0 | 0.6 |
| 1.5.3 P<br>Biochemistry – II                         | 1.5.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.5.4 P<br>Medicinal Chemistry-I                     | 1.5.4 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |

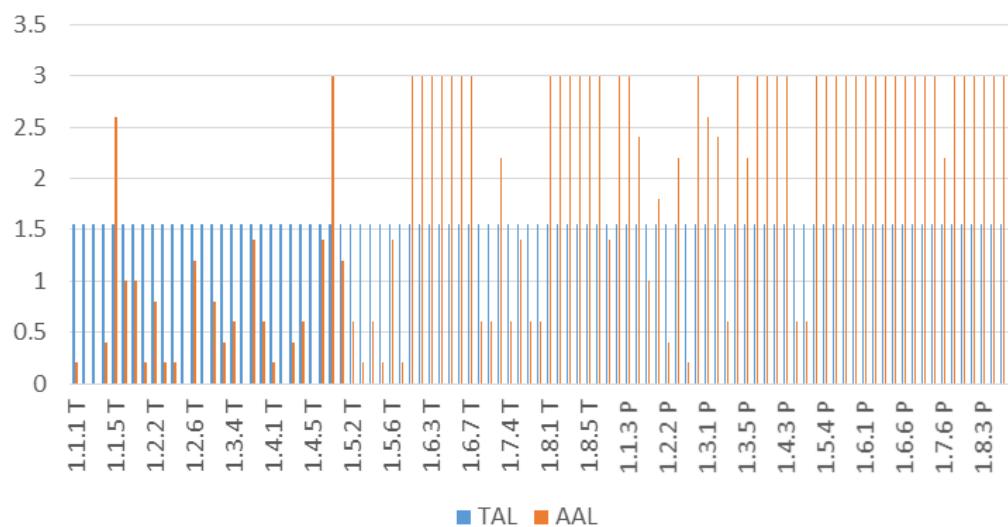
|   |         |    |   |     |      |   |   |     |
|---|---------|----|---|-----|------|---|---|-----|
| 1.5.5 P<br>Pharmacology-II              | 1.5.5 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.5.6 P<br>Pharmacognosy -II            | 1.5.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.5.7 P<br>Pharmaceutical Analysis – II | 1.5.7 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.1 P<br>Cosmeticology – I            | 1.6.1 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.3 P<br>Biotechnology                | 1.6.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.4 P<br>Medicinal Chemistry-II       | 1.6.4 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.5 P<br>Pharmacology-III             | 1.6.5 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.6.6 P<br>Pharmacognosy -III           | 1.6.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.7.1 P<br>Pharmaceutics-VI             | 1.7.1 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.7.3 P<br>Cosmeticology - II           | 1.7.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.7.4 P<br>Medicinal Chemistry-III      | 1.7.4 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3   |
| 1.7.6 P<br>Pharmacognosy – IV           | 1.7.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 2 | 2.2 |

|   |         |    |   |     |      |   |   |   |
|---|---------|----|---|-----|------|---|---|---|
| 1.7.7 P<br>Pharmaceutical Analysis - III            | 1.7.7 T | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.1 P<br>Pharmaceutics - VII                      | 1.8.1 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.2 P<br>Biopharmaceutics & Pharmacokinetics - II | 1.8.2 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.3 P<br>Medicinal Chemistry-IV                   | 1.8.3 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.4 P<br>Pharmacognosy- V                         | 1.8.4 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.5 P<br>Clinical Pharmacology                    | 1.8.5 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |
| 1.8.6 P<br>Pharmaceutical Analysis - IV             | 1.8.6 P | 55 | 3 | 1.2 | 1.56 | 3 | 3 | 3 |

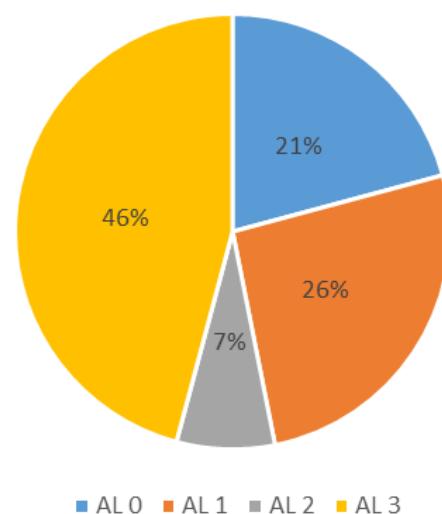
Looking at the course outcomes data from the above table, it is seen that in four years of B. Pharm. program with 96 courses, students of B. Pharm. batch of 2017-2021 attended set target of 55%,

- o With Attainment Level of **0** in 21% of the subjects (less than 60% students got 55% of marks),
- o Attainment Level of **1** was attained in 26% of the subjects (more than 60% but less than 70% students got 55% of marks),
- o Attainment level of **2** was attained in 7% of the subjects (more than 70% but less than 80% students got 55% of marks) and
- o Attainment level **3** was attained 46 % subjects (80% and more than 80% students got 55% marks).

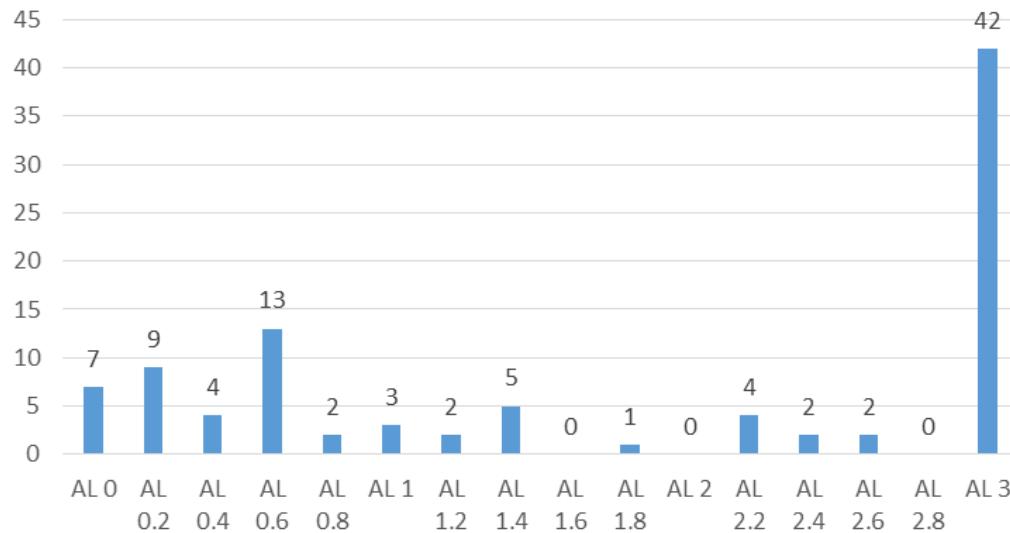
## CO ATTAINMENT LEVEL 2017-2021



## AL % of Courses 2017-2021



## AL vs No. of Courses 2017-2021



Similarly Course outcomes attainment level is calculated for previous B. Pharm. 2016 - 2020 (LYG-1) and 2015 - 2019 (LYG-2) batches and results are depicted as below:

## Attainment of Course Outcomes B. Pharm batch 2016-2020 [SEM I-VIII]

| Course Outcomes attainment level (2016-2020)                  |             |                                |                               |     |             |                                 |     |             |
|---|-------------|--------------------------------|-------------------------------|-----|-------------|---------------------------------|-----|-------------|
| Course Name   | Course Code | Set Attainment Level (Marks %) | Target Attainment level (TAL) |     |             | Achieved Attainment Level (AAL) |     |             |
|   |             |                                | IA                            | ESE | Final (TAL) | IA                              | ESE | Final (AAL) |
| 1.1.1 T<br>Pharmaceutics-I<br>(Dispensing & General Pharmacy) | 1.1.1 T     | 55                             | 3                             | 1   | 1.4         | 2                               | 0   | 0.4         |
| 1.1.2 T<br>Pharmaceutical Organic Chemistry-I                 | 1.1.2 T     | 55                             | 3                             | 1   | 1.4         | 2                               | 0   | 0.4         |
| 1.1.3 T<br>Pharmaceutical Inorganic Chemistry                 | 1.1.3 T     | 55                             | 3                             | 1   | 1.4         | 1                               | 2   | 1.8         |

|   |          |    |   |   |     |   |   |     |
|---|----------|----|---|---|-----|---|---|-----|
| 1.1.4 T<br>Anatomy, Physiology & Pathophysiology-I  | 1.1.4 T  | 55 | 3 | 1 | 1.4 | 1 | 1 | 1   |
| 1.1.5 T<br>Health Education & Environmental Studies | 1.1.5 T  | 55 | 3 | 1 | 1.4 | 1 | 3 | 2.6 |
| 1.1.6 T<br>Remedial Biology                         | 1.1.6 BT | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.1.6 T<br>Remedial Mathematics                     | 1.1.6 MT | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.2.1 T<br>Pharmaceutics-II                         | 1.2.1 T  | 55 | 3 | 1 | 1.4 | 0 | 0 | 0   |
| 1.2.2 T<br>Community & Hospital Pharmacy            | 1.2.2 T  | 55 | 3 | 1 | 1.4 | 1 | 0 | 0.2 |
| 1.2.3 T<br>Pharmaceutical Organic Chemistry-II      | 1.2.3 T  | 55 | 3 | 1 | 1.4 | 2 | 0 | 0.4 |
| 1.2.4 T<br>Biochemistry – I                         | 1.2.4 T  | 55 | 3 | 1 | 1.4 | 0 | 0 | 0   |
| 1.2.5 T<br>Anatomy, Physiology & Pathophysiology-II | 1.2.5 T  | 55 | 3 | 1 | 1.4 | 1 | 2 | 1.8 |
| 1.2.6 T<br>Pharmacognosy- I                         | 1.2.6 T  | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.3.1 T<br>Pharmaceutics –III                       | 1.3.1 T  | 55 | 3 | 1 | 1.4 | 2 | 2 | 2   |

|   |         |    |   |   |     |   |   |     |
|---|---------|----|---|---|-----|---|---|-----|
| 1.3.2 T<br>Physical<br>Pharmaceutics-I                  | 1.3.2 T | 55 | 3 | 1 | 1.4 | 2 | 2 | 2   |
| 1.3.3 T<br>Pharmaceutical<br>Microbiology               | 1.3.3 T | 55 | 3 | 1 | 1.4 | 1 | 0 | 0.2 |
| 1.3.4 T<br>Pharmaceutical<br>Organic Chemistry-III      | 1.3.4 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.3.5 T<br>Anatomy, Physiology<br>& Pathophysiology-III | 1.3.5 T | 55 | 3 | 1 | 1.4 | 1 | 0 | 0.2 |
| 1.3.6 T<br>Pharmaceutical<br>Analysis - I               | 1.3.6 T | 55 | 3 | 1 | 1.4 | 0 | 1 | 0.8 |
| 1.3.7 T<br>Biostatistics                                | 1.3.7 T | 55 | 3 | 1 | 1.4 | 0 | 0 | 0   |
| 1.4.1 T<br>Pharmaceutics - IV                           | 1.4.1 T | 55 | 3 | 1 | 1.4 | 1 | 2 | 1.8 |
| 1.4.2 T<br>Physical<br>Pharmaceutics                    | 1.4.2 T | 55 | 3 | 1 | 1.4 | 1 | 1 | 1   |
| 1.4.3 T<br>Pharmaceutical<br>Organic Chemistry          | 1.4.3 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.4.4 T<br>Anatomy, Physiology<br>Pathophysiology       | 1.4.4 T | 55 | 3 | 1 | 1.4 | 2 | 1 | 1.2 |
| 1.4.5 T<br>Pharmacology-I                               | 1.4.5 T | 55 | 3 | 1 | 1.4 | 1 | 2 | 1.8 |
| 1.4.6 T<br>Computer Applications                        | 1.4.6 T | 55 | 3 | 1 | 1.4 | 2 | 2 | 2   |

|  |         |    |   |   |     |   |   |     |
|--|---------|----|---|---|-----|---|---|-----|
| 1.4.7 T<br>Pharmaceutical Marketing & Management                         | 1.4.7 T | 55 | 3 | 1 | 1.4 | 3 | 2 | 2.2 |
| 1.5.1 T<br>Pharmaceutics - V<br>(Quality Assurance & Regulatory Affairs) | 1.5.1 T | 55 | 3 | 1 | 1.4 | 2 | 2 | 2   |
| 1.5.2 T<br>Pharmaceutical Engineering-I                                  | 1.5.2 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.5.3 T<br>Biochemistry – II   | 1.5.3 T | 55 | 3 | 1 | 1.4 | 0 | 1 | 0.8 |
| 1.5.4 T<br>Medicinal Chemistry-I   | 1.5.4 T | 55 | 3 | 1 | 1.4 | 0 | 1 | 0.8 |
| 1.5.5 T<br>Pharmacology-II   | 1.5.5 T | 55 | 3 | 1 | 1.4 | 2 | 0 | 0.4 |
| 1.5.6 T<br>Pharmacognosy –II   | 1.5.6 T | 55 | 3 | 1 | 1.4 | 0 | 3 | 2.4 |
| 1.5.7 T<br>Pharmaceutical Analysis – II                                  | 1.5.7 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.6.1 T<br>Cosmeticology – I   | 1.6.1 T | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.6.2 T<br>Pharmaceutical Engineering-II                                 | 1.6.2 T | 55 | 3 | 1 | 1.4 | 2 | 0 | 0.6 |
| 1.6.3 T<br>Biotechnology   | 1.6.3 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |

|   |         |    |   |   |     |   |   |     |
|---|---------|----|---|---|-----|---|---|-----|
| 1.6.4 T<br>Medicinal Chemistry-II                 | 1.6.4 T | 55 | 3 | 1 | 1.4 | 3 | 2 | 2.2 |
| 1.6.5 T<br>Pharmacology-III                       | 1.6.5 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.6.6 T<br>Pharmacognosy –III                     | 1.6.6 T | 55 | 3 | 1 | 1.4 | 1 | 3 | 2.6 |
| 1.6.7 T<br>Pharmaceutical Jurisprudence           | 1.6.7 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.7.1 T<br>Pharmaceutics-VI                       | 1.7.1 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.7.2 T<br>Biopharmaceutics & Pharmacokinetics -I | 1.7.2 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.7.3 T<br>Cosmeticology - II                     | 1.7.3 T | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.7.4 T<br>Medicinal Chemistry- III               | 1.7.4 T | 55 | 3 | 1 | 1.4 | 3 | 0 | 0.6 |
| 1.7.5 T<br>Pharmacology –IV                       | 1.7.5 T | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.7.6 T<br>Pharmacognosy – IV                     | 1.7.6 T | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.7.7 T<br>Pharmaceutical Analysis - III          | 1.7.7 T | 55 | 3 | 1 | 1.4 | 2 | 2 | 2   |

|   |          |    |   |   |     |   |   |     |
|---|----------|----|---|---|-----|---|---|-----|
| 1.8.1 T<br>Pharmaceutics - VII                                | 1.8.1 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.8.2 T<br>Biopharmaceutics & Pharmacokinetics - II           | 1.8.2 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.8.3 T<br>Medicinal Chemistry- IV                            | 1.8.3 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.8.4 T<br>Pharmacognosy- V                                   | 1.8.4 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.8.5 T<br>Clinical Pharmacology                              | 1.8.5 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.8.6 T<br>Pharmaceutical Analysis - IV                       | 1.8.6 T  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.1.1 P<br>Pharmaceutics-I<br>(Dispensing & General Pharmacy) | 1.1.1 P  | 55 | 3 | 1 | 1.4 | 1 | 2 | 1.8 |
| 1.1.2 P<br>Pharmaceutical Organic Chemistry-I                 | 1.1.2 P  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.1.3 P<br>Pharmaceutical Inorganic Chemistry                 | 1.1.3 P  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.1.4 P<br>Anatomy, Physiology & Pathophysiology-I            | 1.1.4 P  | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.1.6 P<br>Remedial Biology                                   | 1.1.6 BP | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |

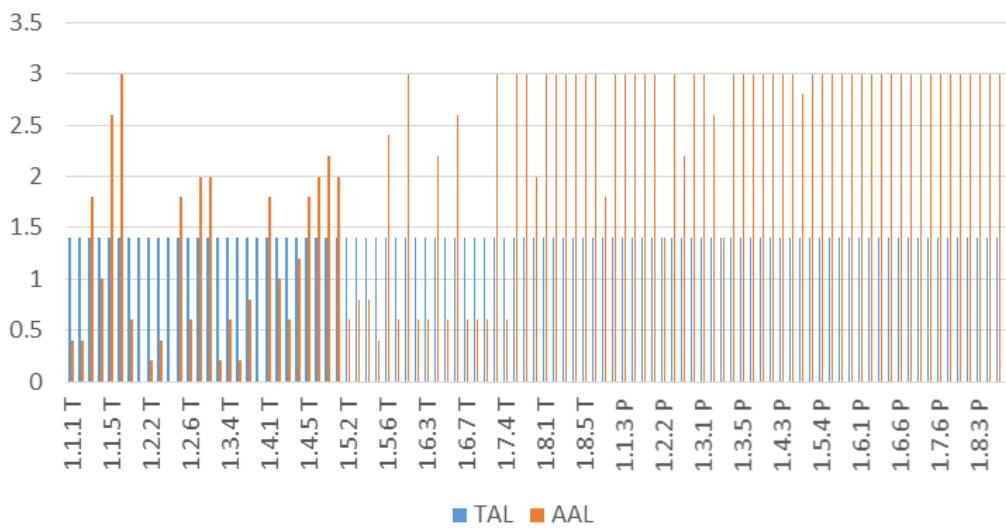
|  |         |    |   |   |     |   |   |     |
|--|---------|----|---|---|-----|---|---|-----|
| 1.2.1 P<br>Pharmaceutics-II                          | 1.2.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.2.2 P<br>Community & Hospital Pharmacy             | 1.2.2 P | 55 | 3 | 1 | 1.4 | 3 | 1 | 1.4 |
| 1.2.3 P<br>Pharmaceutical Organic Chemistry-II       | 1.2.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.2.4 P<br>Biochemistry – I                          | 1.2.4 P | 55 | 3 | 1 | 1.4 | 3 | 2 | 2.2 |
| 1.2.6 P<br>Pharmacognosy -I                          | 1.2.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.3.1 P<br>Pharmaceutics –III                        | 1.3.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.3.2 P<br>Physical Pharmaceutics-I                  | 1.3.2 P | 55 | 3 | 1 | 1.4 | 1 | 3 | 2.6 |
| 1.3.3 P<br>Pharmaceutical Microbiology               | 1.3.3 P | 55 | 3 | 1 | 1.4 | 3 | 1 | 1.4 |
| 1.3.4 P<br>Pharmaceutical Organic Chemistry-III      | 1.3.4 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.3.5 P<br>Anatomy, Physiology & Pathophysiology-III | 1.3.5 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.3.6 P<br>Pharmaceutical Analysis - I               | 1.3.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |

|  |         |    |   |   |     |   |   |     |
|--|---------|----|---|---|-----|---|---|-----|
| 1.4.1 P<br>Pharmaceutics - IV                  | 1.4.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.4.2 P<br>Physical<br>Pharmaceutics           | 1.4.2 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.4.3 P<br>Pharmaceutical<br>Organic Chemistry | 1.4.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.4.5 P<br>Pharmacology                        | 1.4.5 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.4.6 P<br>Computer Applications               | 1.4.6 P | 55 | 3 | 1 | 1.4 | 2 | 3 | 2.8 |
| 1.5.3 P<br>Biochemistry – II                   | 1.5.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.5.4 P<br>Medicinal Chemistry-I               | 1.5.4 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.5.5 P<br>Pharmacology-II                     | 1.5.5 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.5.6 P<br>Pharmacognosy –II                   | 1.5.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.5.7 P<br>Pharmaceutical<br>Analysis – II     | 1.5.7 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.6.1 P<br>Cosmeticology – I                   | 1.6.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.6.3 P<br>Biotechnology                       | 1.6.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |
| 1.6.4 P<br>Medicinal Chemistry-II              | 1.6.4 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3   |

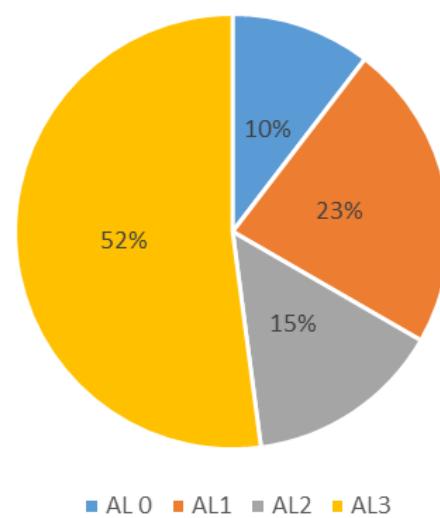
|   |         |    |   |   |     |   |   |   |
|---|---------|----|---|---|-----|---|---|---|
| 1.6.5 P<br>Pharmacology-III                         | 1.6.5 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.6.6 P<br>Pharmacognosy –III                       | 1.6.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.7.1 P<br>Pharmaceutics-VI                         | 1.7.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.7.3 P<br>Cosmeticology - II                       | 1.7.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.7.4 P<br>Medicinal Chemistry- III                 | 1.7.4 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.7.6 P<br>Pharmacognosy – IV                       | 1.7.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.7.7 P<br>Pharmaceutical Analysis - III            | 1.7.7 T | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.8.1 P<br>Pharmaceutics - VII                      | 1.8.1 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.8.2 P<br>Biopharmaceutics & Pharmacokinetics - II | 1.8.2 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.8.3 P<br>Medicinal Chemistry- IV                  | 1.8.3 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.8.4 P<br>Pharmacognosy- V                         | 1.8.4 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |

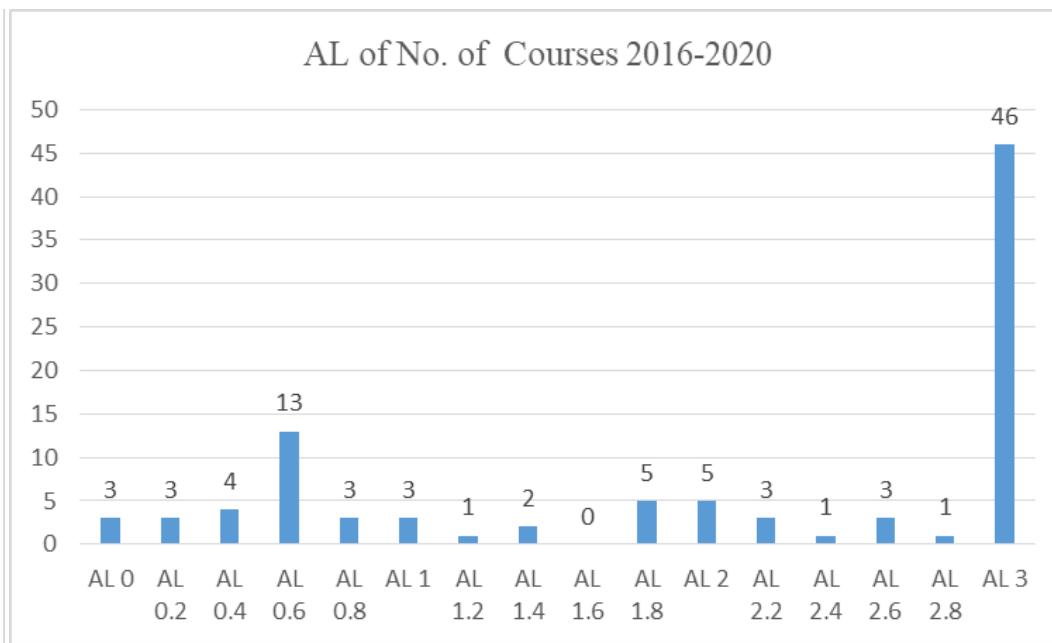
|  |         |    |   |   |     |   |   |   |
|--|---------|----|---|---|-----|---|---|---|
| 1.8.5 P<br>Clinical Pharmacology           | 1.8.5 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |
| 1.8.6 P<br>Pharmaceutical<br>Analysis - IV | 1.8.6 P | 55 | 3 | 1 | 1.4 | 3 | 3 | 3 |

## CO ATTAINMENT LEVEL BATCH (2016-2020)



## AL of Courses 2016-2020





Attainment of course outcomes B. Pharm batch 2015-2019 [SEM I-VIII]

| Course Name   | Course Code | Set<br>Attainment<br>Level<br>(Marks %) | Target Attainment level<br>(TAL) |     |                | Achieved Attainment Level<br>(AAL) |     |                |
|---|-------------|---|----------------------------------|-----|----------------|------------------------------------|-----|----------------|
|   |             |   | IA                               | ESE | Final<br>(TAL) | IA                                 | ESE | Final<br>(AAL) |
| 1.1.1 T<br>Pharmaceutics-I<br>(Dispensing & General Pharmacy) | 1.1.1 T     | 55                                      | 2                                | 1   | 1.2            | 2                                  | 0   | 0.4            |
| 1.1.2 T<br>Pharmaceutical<br>Organic Chemistry-I              | 1.1.2 T     | 55                                      | 2                                | 1   | 1.2            | 3                                  | 1   | 1.4            |
| 1.1.3 T<br>Pharmaceutical<br>Inorganic Chemistry              | 1.1.3 T     | 55                                      | 2                                | 1   | 1.2            | 2                                  | 1   | 1.2            |

|   |                 |    |   |   |     |    |    |     |
|---|-----------------|----|---|---|-----|----|----|-----|
| 1.1.4 T<br>Anatomy, Physiology & Pathophysiology-I  | <b>1.1.4 T</b>  | 55 | 2 | 1 | 1.2 | 0  | 0  | 0   |
| 1.1.5 T<br>Health Education & Environmental Studies | <b>1.1.5 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.1.6 T<br>Remedial Biology                         | <b>1.1.6 BT</b> | 55 | 2 | 1 | 1.2 | NA | NA | NA  |
| 1.1.6 T<br>Remedial Mathematics                     | <b>1.1.6 MT</b> | 55 | 2 | 1 | 1.2 | 0  | 0  | 0   |
| 1.2.1 T<br>Pharmaceutics-II                         | <b>1.2.1 T</b>  | 55 | 2 | 1 | 1.2 | 1  | 0  | 0.2 |
| 1.2.2 T<br>Community & Hospital Pharmacy            | <b>1.2.2 T</b>  | 55 | 2 | 1 | 1.2 | 2  | 1  | 1.2 |
| 1.2.3 T<br>Pharmaceutical Organic Chemistry-II      | <b>1.2.3 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 0  | 0.6 |
| 1.2.4 T<br>Biochemistry – I                         | <b>1.2.4 T</b>  | 55 | 2 | 1 | 1.2 | 0  | 0  | 0   |
| 1.2.5 T<br>Anatomy, Physiology & Pathophysiology-II | <b>1.2.5 T</b>  | 55 | 2 | 1 | 1.2 | 1  | 2  | 1.8 |
| 1.2.6 T<br>Pharmacognosy- I                         | <b>1.2.6 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 0  | 0.6 |
| 1.3.1 T<br>Pharmaceutics –III                       | <b>1.3.1 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 0  | 0.6 |

|   |                |    |   |   |     |   |   |     |
|---|----------------|----|---|---|-----|---|---|-----|
| 1.3.2 T<br>Physical<br>Pharmaceutics-I                  | <b>1.3.2 T</b> | 55 | 2 | 1 | 1.2 | 3 | 1 | 1.4 |
| 1.3.3 T<br>Pharmaceutical<br>Microbiology               | <b>1.3.3 T</b> | 55 | 2 | 1 | 1.2 | 2 | 0 | 0.4 |
| 1.3.4 T<br>Pharmaceutical<br>Organic Chemistry-III      | <b>1.3.4 T</b> | 55 | 2 | 1 | 1.2 | 2 | 1 | 1.2 |
| 1.3.5 T<br>Anatomy, Physiology &<br>Pathophysiology-III | <b>1.3.5 T</b> | 55 | 2 | 1 | 1.2 | 3 | 1 | 1.4 |
| 1.3.6 T<br>Pharmaceutical<br>Analysis - I               | <b>1.3.6 T</b> | 55 | 2 | 1 | 1.2 | 0 | 0 | 0   |
| 1.3.7 T<br>Biostatistics                                | <b>1.3.7 T</b> | 55 | 2 | 1 | 1.2 | 0 | 2 | 1.6 |
| 1.4.1 T<br>Pharmaceutics - IV                           | <b>1.4.1 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.4.2 T<br>Physical<br>Pharmaceutics                    | <b>1.4.2 T</b> | 55 | 2 | 1 | 1.2 | 1 | 1 | 1   |
| 1.4.3 T<br>Pharmaceutical<br>Organic Chemistry          | <b>1.4.3 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.4.4 T<br>Anatomy, Physiology<br>Pathophysiology       | <b>1.4.4 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.4.5 T<br>Pharmacology                                 | <b>1.4.5 T</b> | 55 | 2 | 1 | 1.2 | 2 | 0 | 0.4 |
| 1.4.6 T<br>Computer Applications                        | <b>1.4.6 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |

|   |                |    |   |   |     |   |   |     |
|---|----------------|----|---|---|-----|---|---|-----|
| 1.4.7 T<br>Pharmaceutical<br>Marketing &<br>Management                      | <b>1.4.7 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.5.1 T<br>Pharmaceutics - V<br>(Quality Assurance &<br>Regulatory Affairs) | <b>1.5.1 T</b> | 55 | 2 | 1 | 1.2 | 2 | 1 | 1.2 |
| 1.5.2 T<br>Pharmaceutical<br>Engineering-I                                  | <b>1.5.2 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.5.3 T<br>Biochemistry – II  | <b>1.5.3 T</b> | 55 | 2 | 1 | 1.2 | 2 | 2 | 2   |
| 1.5.4 T<br>Medicinal Chemistry-I  | <b>1.5.4 T</b> | 55 | 2 | 1 | 1.2 | 2 | 3 | 2.8 |
| 1.5.5 T<br>Pharmacology-II  | <b>1.5.5 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.5.6 T<br>Pharmacognosy –II  | <b>1.5.6 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.5.7 T<br>Pharmaceutical<br>Analysis – II                                  | <b>1.5.7 T</b> | 55 | 2 | 1 | 1.2 | 2 | 3 | 2.8 |
| 1.6.1 T<br>Cosmeticology – I  | <b>1.6.1 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.6.2 T<br>Pharmaceutical<br>Engineering-II                                 | <b>1.6.2 T</b> | 55 | 2 | 1 | 1.2 | 2 | 0 | 0.4 |
| 1.6.3 T<br>Biotechnology  | <b>1.6.3 T</b> | 55 | 2 | 1 | 1.2 | 2 | 3 | 2.8 |

|   |                |    |   |   |     |   |   |     |
|---|----------------|----|---|---|-----|---|---|-----|
| 1.6.4 T<br>Medicinal Chemistry-II                 | <b>1.6.4 T</b> | 55 | 2 | 1 | 1.2 | 3 | 1 | 1.4 |
| 1.6.5 T<br>Pharmacology-III                       | <b>1.6.5 T</b> | 55 | 2 | 1 | 1.2 | 3 | 0 | 0.6 |
| 1.6.6 T<br>Pharmacognosy -III                     | <b>1.6.6 T</b> | 55 | 2 | 1 | 1.2 | 3 | 2 | 2.2 |
| 1.6.7 T<br>Pharmaceutical Jurisprudence           | <b>1.6.7 T</b> | 55 | 2 | 1 | 1.2 | 2 | 1 | 1.2 |
| 1.7.1 T<br>Pharmaceutics-VI                       | <b>1.7.1 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.7.2 T<br>Biopharmaceutics & Pharmacokinetics -I | <b>1.7.2 T</b> | 55 | 2 | 1 | 1.2 | 1 | 0 | 0.2 |
| 1.7.3 T<br>Cosmeticology - II                     | <b>1.7.3 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.7.4 T<br>Medicinal Chemistry-III                | <b>1.7.4 T</b> | 55 | 2 | 1 | 1.2 | 3 | 2 | 2.2 |
| 1.7.5 T<br>Pharmacology -IV                       | <b>1.7.5 T</b> | 55 | 2 | 1 | 1.2 | 3 | 2 | 2.2 |
| 1.7.6 T<br>Pharmacognosy – IV                     | <b>1.7.6 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.7.7 T<br>Pharmaceutical Analysis - III          | <b>1.7.7 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.8.1 T<br>Pharmaceutics - VII                    | <b>1.8.1 T</b> | 55 | 2 | 1 | 1.2 | 1 | 2 | 1.8 |

|   |                 |    |   |   |     |    |    |     |
|---|-----------------|----|---|---|-----|----|----|-----|
| 1.8.2 T<br>Biopharmaceutics & Pharmacokinetics - II           | <b>1.8.2 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 0  | 0.6 |
| 1.8.3 T<br>Medicinal Chemistry-IV                             | <b>1.8.3 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 2  | 2.2 |
| 1.8.4 T<br>Pharmacognosy- V                                   | <b>1.8.4 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.8.5 T<br>Clinical Pharmacology                              | <b>1.8.5 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.8.6 T<br>Pharmaceutical Analysis - IV                       | <b>1.8.6 T</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.1.1 P<br>Pharmaceutics-I<br>(Dispensing & General Pharmacy) | <b>1.1.1 P</b>  | 55 | 2 | 1 | 1.2 | 2  | 0  | 2.6 |
| 1.1.2 P<br>Pharmaceutical Organic Chemistry-I                 | <b>1.1.2 P</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.1.3 P<br>Pharmaceutical Inorganic Chemistry                 | <b>1.1.3 P</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.1.4 P<br>Anatomy, Physiology & Pathophysiology-I            | <b>1.1.4 P</b>  | 55 | 2 | 1 | 1.2 | 3  | 3  | 3   |
| 1.1.6 P<br>Remedial Biology                                   | <b>1.1.6 BP</b> | 55 | 2 | 1 | 1.2 | NA | NA | NA  |
| 1.2.1 P<br>Pharmaceutics-II                                   | <b>1.2.1 P</b>  | 55 | 2 | 1 | 1.2 | 2  | 3  | 2.8 |

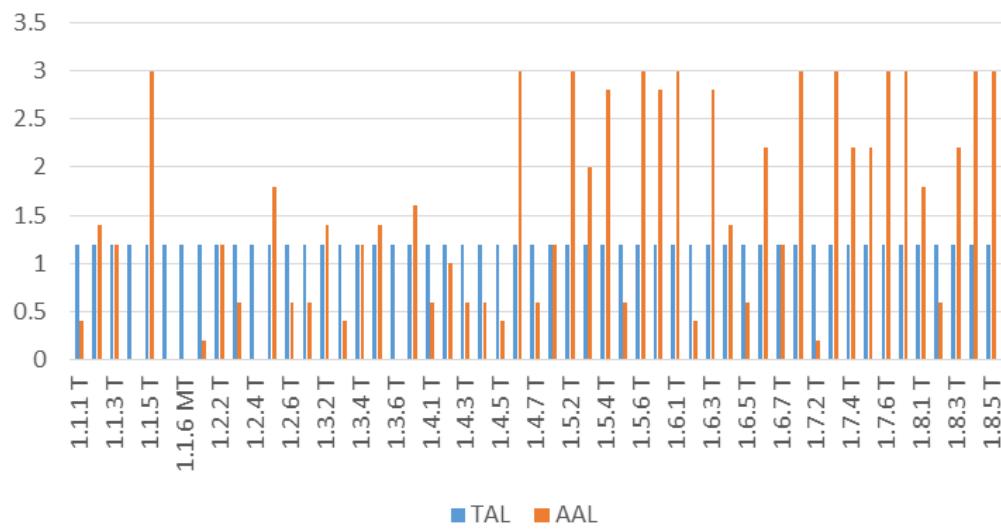
|  |                |    |   |   |     |   |   |     |
|--|----------------|----|---|---|-----|---|---|-----|
| 1.2.2 P<br>Community & Hospital Pharmacy             | <b>1.2.2 P</b> | 55 | 2 | 1 | 1.2 | 3 | 1 | 1.4 |
| 1.2.3 P<br>Pharmaceutical Organic Chemistry-II       | <b>1.2.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.2.4 P<br>Biochemistry – I                          | <b>1.2.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 2 | 2.2 |
| 1.2.6 P<br>Pharmacognosy -I                          | <b>1.2.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.3.1 P<br>Pharmaceutics –III                        | <b>1.3.1 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.3.2 P<br>Physical Pharmaceutics-I                  | <b>1.3.2 P</b> | 55 | 2 | 1 | 1.2 | 2 | 3 | 2.8 |
| 1.3.3 P<br>Pharmaceutical Microbiology               | <b>1.3.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 1 | 1.4 |
| 1.3.4 P<br>Pharmaceutical Organic Chemistry-III      | <b>1.3.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.3.5 P<br>Anatomy, Physiology & Pathophysiology-III | <b>1.3.5 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.3.6 P<br>Pharmaceutical Analysis - I               | <b>1.3.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |
| 1.4.1 P<br>Pharmaceutics - IV                        | <b>1.4.1 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3   |

|  |                |    |   |   |     |   |   |   |
|--|----------------|----|---|---|-----|---|---|---|
| 1.4.2 P<br>Physical<br>Pharmaceutics           | <b>1.4.2 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.4.3 P<br>Pharmaceutical<br>Organic Chemistry | <b>1.4.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.4.5 P<br>Pharmacology                        | <b>1.4.5 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.4.6 P<br>Computer Applications               | <b>1.4.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.5.3 P<br>Biochemistry – II                   | <b>1.5.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.5.4 P<br>Medicinal Chemistry-I               | <b>1.5.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.5.5 P<br>Pharmacology-II                     | <b>1.5.5 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.5.6 P<br>Pharmacognosy –II                   | <b>1.5.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.5.7 P<br>Pharmaceutical<br>Analysis – II     | <b>1.5.7 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.6.1 P<br>Cosmeticology – I                   | <b>1.6.1 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.6.3 P<br>Biotechnology                       | <b>1.6.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.6.4 P<br>Medicinal Chemistry-II              | <b>1.6.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |

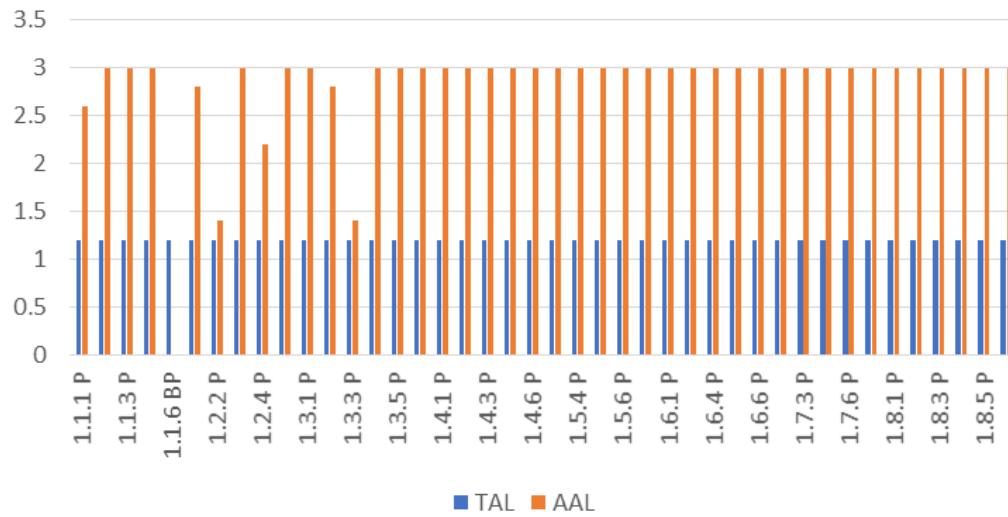
|   |                |    |   |   |     |   |   |   |
|---|----------------|----|---|---|-----|---|---|---|
| 1.6.5 P<br>Pharmacology-III                         | <b>1.6.5 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.6.6 P<br>Pharmacognosy -III                       | <b>1.6.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.7.1 P<br>Pharmaceutics-VI                         | <b>1.7.1 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.7.3 P<br>Cosmeticology - II                       | <b>1.7.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.7.4 P<br>Medicinal Chemistry-III                  | <b>1.7.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.7.6 P<br>Pharmacognosy – IV                       | <b>1.7.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.7.7 P<br>Pharmaceutical Analysis - III            | <b>1.7.7 T</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.8.1 P<br>Pharmaceutics - VII                      | <b>1.8.1 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.8.2 P<br>Biopharmaceutics & Pharmacokinetics - II | <b>1.8.2 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.8.3 P<br>Medicinal Chemistry-IV                   | <b>1.8.3 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.8.4 P<br>Pharmacognosy- V                         | <b>1.8.4 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
| 1.8.5 P<br>Clinical Pharmacology                    | <b>1.8.5 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |

|  |                |    |   |   |     |   |   |   |
|--|----------------|----|---|---|-----|---|---|---|
| 1.8.6 P<br>Pharmaceutical<br>Analysis - IV | <b>1.8.6 P</b> | 55 | 2 | 1 | 1.2 | 3 | 3 | 3 |
|--|----------------|----|---|---|-----|---|---|---|

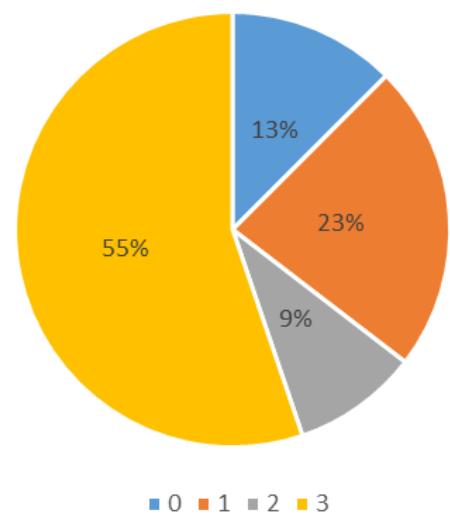
CO Attainment Level Theory 2015-2019

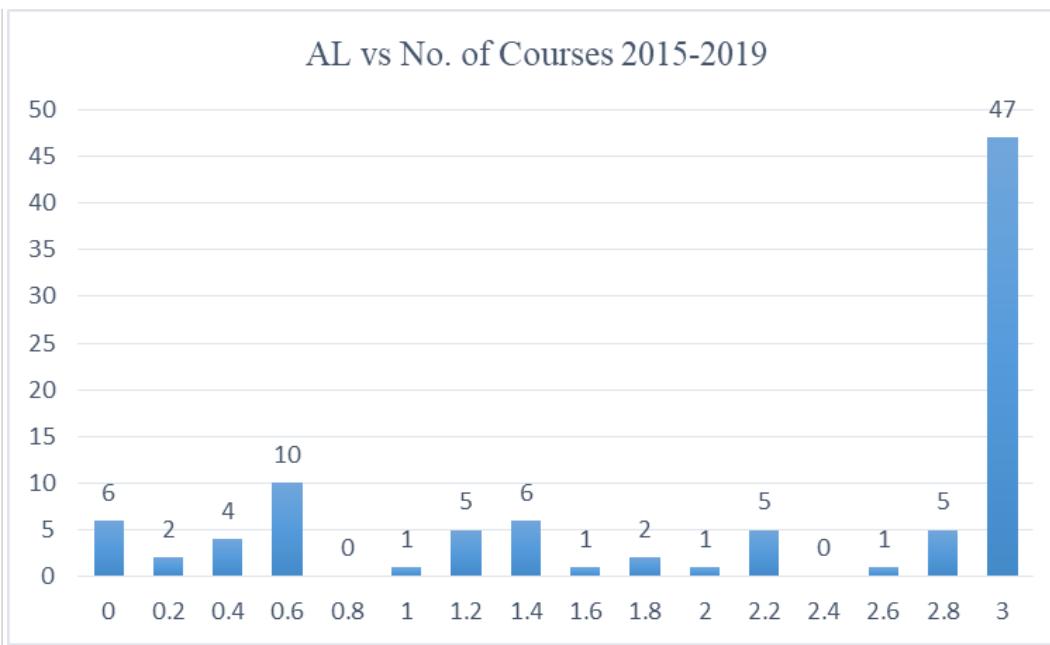


## CO attainment level practical 2015-2019



## AL vs % of Courses 2015-2019





Above graphs depict the course outcomes attainment level for the batches of LYG, LYG-1 and LYG-2. It is seen that 50% and more of courses have achieved course outcomes attainment level of 3.







**3.3 Attainment of Program Outcomes (40)**

Total Marks 40.00

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

Institute Marks : 10.00

Attainment of each program outcome is assessed by two different processes i.e. direct assessment and indirect assessment.

**Direct assessment tools for attainment of Program Outcomes:**

Direct assessment tools and processes for attainment of various POs are shown in below table, which is comprised of various academic tools such as end semester examinations, internal test papers, practical synopsis, viva-voce, laboratory assessment and practical record books. For calculations of final attainment of POs, 80% of marks are considered.

| Sr. No. | Assessment tool | Objective | Program Outcomes [PO] Mapped | Assessment Process |
|---------|-----------------|-----------|------------------------------|--------------------|
|         |                 |           |                              |                    |

|   |   |   |          |  |
|---|---|---|----------|--|
| 1 | Internal test papers<br>Theory (IA)   | Assessing understanding and demonstration of knowledge gained with respect to theoretical aspects of course content | All PO s | Students are assessed based upon internal test of the respective course, answer sheets are evaluated and marks are allotted. The marks scored are considered for attainment of program outcomes. |
| 2 | Internal test papers<br>Practicals (IA)<br>(practical synopsis, viva-voce, laboratory assessment, practical record book ) | Assessing, understanding and demonstration of knowledge gained with respect to practical aspects of course content  | All PO s | Students are assessed based upon internal test of the respective course, answer sheets are evaluated and marks are allotted. The marks scored are considered for attainment of program outcomes. |
| 3 | End semester Examination  | Assessing understanding and demonstration of knowledge gained with respect to course content                        | All PO s | Students are evaluated in end semester examination conducted by the University, marks obtained by the students are considered for calculation of program outcomes.                               |

**Indirect tools for attainment of Program Outcomes:**

Indirect assessment tools and processes for attainment of various POs are as shown in the below table, comprising of various assessment tools such as assignments, project reports , alumni survey, recruiters' survey, surveys of student performance from academic institutes for higher education, survey from society regarding professional services from students, sports and cultural activities, students' council, industrial visit, in-plant training etc. 20 % of marks scored under this assessment criteria are used for calculation of final attainment of Program Outcomes.

| Sr. No. | Assessment tool     | Objective   | Frequency                            | Program Outcomes [PO s] | Assessment Process                                    |
|---------|---------------------|---|--------------------------------------|-------------------------|---|
| 1       | Recruiters survey   | To collect feedback from employers about knowledge and skills possessed by the students | Annually                             | All PO s                | Verbal/ written responses are collected and evaluated |
| 2       | Student exit survey | To assess contribution of the program towards overall development of the student        | After completion of program          | All PO s                | Verbal/ written responses are collected and evaluated |
| 3       | Alumni survey       | To assess contribution of the program towards professional fulfilment of the student    | Once, after completion of graduation | All PO s                | Verbal/ written responses are collected and evaluated |

|   |   |  |                                    |                                |   |
|---|---|--|------------------------------------|--------------------------------|---|
| 4 | Survey from higher education institutes   | To collect feedback from higher education institutes knowledge and skills possessed by candidate                 | Annually                           | All POs                        | Verbal/ written responses are collected and evaluated   |
| 5 | Society feedback  | To collect feedback from society knowledge and skills possessed by candidates                                    | After health campaigns             | All POs                        | Verbal/ written responses are collected and evaluated   |
| 6 | Extracurricular activities (cultural/sports activities)   | To assess extracurricular development of students  | After every cultural/sports event  | PO2, PO5, PO8, PO9, PO10, PO11 | Planning abilities, leadership skills, personal skills and inter-personal capabilities are observed and noted |
| 7 | Co- curricular activities (Assignments/project reports/guest lectures/ In-Plant Training/ Industrial visit) | To assess impact of various co- curricular activities on upgrading professional knowledge and skills of students | After every co-curricular activity | All POs                        | Impact on professional knowledge and skills of students are observed and noted                                |
| 8 | Student's council   | To assess professional and personal capabilities of students   | In third year of the program       | PO2, PO3, PO5, PO8, PO11       | Capabilities and leadership skills of students are observed and noted   |

### 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  |
|---------|-------|-------|-------|-------|-----|-------|-----|-------|-------|------|-------|
| 1.1.1 T | 0.2   | 0.132 | 0.132 | 0.066 | 0   | 0.066 | 0   | 0     | 0.066 | 0    | 0.066 |
| 1.1.2 T | 0     | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0     | 0    | 0     |
| 1.1.3 T | 0     | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0     | 0    | 0     |
| 1.1.4 T | 0.133 | 0     | 0     | 0     | 0   | 0     | 0   | 0.133 | 0     | 0    | 0.133 |

|          |       |       |       |       |   |       |       |       |       |       |       |
|----------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|
| 1.1.5 T  | 0.866 | 0     | 0     | 0     | 0 | 0     | 0     | 0.866 | 0.866 | 0.866 | 0.866 |
| 1.1.1 P  | 1.4   | 1.4   | 1.4   | 0.466 | 0 | 0     | 0     | 0.466 | 0     | 0     | 0.466 |
| 1.1.2 P  | 3     | 2     | 2     | 2     | 0 | 0     | 0     | 1     | 0     | 0     | 0     |
| 1.1.3 P  | 1     | 2     | 1     | 2     | 0 | 0     | 0     | 1     | 0     | 0     | 1     |
| 1.1.4 P  | 0.8   | 0.8   | 0.8   | 0     | 0 | 0     | 0     | 0.8   | 0.8   | 0     | 0.8   |
| 1.1.6 BT | 2     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 2     |
| 1.1.6 MT | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0     |
| 1.1.6 BP | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0     |
| 1.2.1 P  | 1.8   | 0.6   | 0     | 1.2   | 0 | 0     | 0     | 0.6   | 0.6   | 0     | 0.6   |
| 1.2.2 P  | 0.4   | 0.266 | 0     | 0.266 | 0 | 0.266 | 0     | 0.133 | 0.133 | 0     | 0.133 |
| 1.2.3 P  | 1.46  | 0.73  | 0     | 0     | 0 | 0     | 0     | 0.73  | 0     | 0     | 0.73  |
| 1.2.4 P  | 0.066 | 0.132 | 0.132 | 0     | 0 | 0     | 0     | 0.066 | 0     | 0     | 0.066 |
| 1.2.6 P  | 1     | 1     | 1     | 1     | 0 | 1     | 0     | 1     | 1     | 0     | 1     |
| 1.2.1 T  | 0.2   | 0.132 | 0.132 | 0.066 | 0 | 0.132 | 0     | 0     | 0.066 | 0.066 | 0.066 |
| 1.2.2 T  | 0.532 | 0.532 | 0     | 0.532 | 0 | 0.532 | 0.532 | 0.532 | 0.8   | 0     | 0.266 |
| 1.2.3 T  | 0.132 | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0.132 |
| 1.2.4 T  | 0.132 | 0.132 | 0.132 | 0.066 | 0 | 0     | 0     | 0     | 0.132 | 0     | 0.132 |
| 1.2.5 T  | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0     |
| 1.2.6 T  | 0.4   | 0.4   | 0     | 0     | 0 | 0.4   | 0     | 0.4   | 0.4   | 0.4   | 0.4   |
| 1.3.1 T  | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0     |
| 1.3.2 T  | 0.532 | 0.532 | 0.532 | 0.532 | 0 | 0     | 0     | 0     | 0     | 0     | 0.532 |
| 1.3.3 T  | 0.4   | 0     | 0.266 | 0.266 | 0 | 0     | 0     | 0     | 0.266 | 0.266 | 0.133 |
| 1.3.4 T  | 0.6   | 0     | 0.4   | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0.4   |
| 1.3.5 T  | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     | 0     |
| 1.3.6 T  | 0.932 | 0     | 0.932 | 0.932 | 0 | 0     | 0     | 0     | 0     | 0     | 0.932 |
| 1.3.7 T  | 0     | 0.4   | 0.4   | 0     | 0 | 0     | 0     | 0     | 0.2   | 0.2   | 0.4   |
| 1.3.1 P  | 2.6   | 1.732 | 0.866 | 0.866 | 0 | 0     | 0     | 0.866 | 0     | 0     | 0     |
| 1.3.2 P  | 1.6   | 2.4   | 2.4   | 1.6   | 0 | 0     | 0     | 0.8   | 0     | 0     | 0.8   |
| 1.3.3 P  | 0.6   | 0.4   | 0     | 0.4   | 0 | 0     | 0     | 0.2   | 0.4   | 0.2   | 0.2   |
| 1.3.4 P  | 3     | 2     | 0     | 2     | 0 | 0     | 0     | 1     | 0     | 0     | 2     |
| 1.3.5 P  | 0.73  | 0.73  | 0.73  | 0     | 0 | 0     | 0     | 0.73  | 0     | 0     | 0.73  |

|         |       |       |       |       |     |       |     |       |       |       |       |
|---------|-------|-------|-------|-------|-----|-------|-----|-------|-------|-------|-------|
| 1.3.6 P | 3     | 2     | 2     | 2     | 0   | 0     | PO7 | 1     | 0     | 0     | 2     |
| 1.4.1 P | 3     | 2     | 0     | 2     | 0   | 0     | 0   | 1     | 0     | 0     | 0     |
| 1.4.2 P | 2     | 3     | 3     | 2     | 0   | 0     | 0   | 1     | 0     | 0     | 1     |
| 1.4.3 P | 2     | 2     | 1     | 0     | 0   | 0     | 0   | 1     | 0     | 0     | 2     |
| 1.4.5 P | 0.2   | 0.2   | 0.2   | 0     | 0   | 0     | 0   | 0.2   | 0.2   | 0     | 0.2   |
| 1.4.6 P | 0     | 0.2   | 0.2   | 0.4   | 0   | 0     | 0   | 0.2   | 0     | 0     | 0.4   |
| 1.4.1 T | 0.2   | 0.066 | 0.066 | 0.132 | 0   | 0     | 0   | 0     | 0.132 | 0     | 0     |
| 1.4.2 T | 0     | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
| 1.4.3 T | 0.266 | 0.133 | 0.133 | 0.133 | 0   | 0     | 0   | 0     | 0     | 0.133 | 0.4   |
| 1.4.4 T | 0.4   | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0.2   | 0     | 0.2   |
| 1.4.5 T | 0     | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0     |
| 1.4.6 T | 0.466 | 0.466 | 0.466 | 0.466 | 0   | 0     | 0   | 0.466 | 0     | 0     | 0.932 |
| 1.4.7 T | 1     | 2     | 2     | 1     | 2   | 1     | 1   | 2     | 0     | 1     | 1     |
| 1.5.1 T | 1.2   | 0.8   | 0.8   | 0     | 0   | 0     | 0.8 | 0     | 0     | 0     | 0.8   |
| 1.5.2 T | 0.4   | 0.4   | 0.4   | 0.4   | 0.4 | 0     | 0   | 0     | 0.2   | 0.2   | 0.6   |
| 1.5.3 T | 0.132 | 0     | 0.066 | 0.066 | 0   | 0     | 0   | 0     | 0.132 | 0     | 0.066 |
| 1.5.4 T | 0.4   | 0     | 0.2   | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0.4   |
| 1.5.5 T | 0.066 | 0     | 0     | 0     | 0   | 0     | 0   | 0     | 0.066 | 0     | 0.066 |
| 1.5.6 T | 0.932 | 0.932 | 0.932 | 0.932 | 0   | 0.932 | 0   | 0     | 0.932 | 0     | 0.932 |
| 1.5.7 T | 0.2   | 0     | 0.066 | 0.132 | 0   | 0     | 0   | 0     | 0     | 0.132 | 0.132 |
| 1.5.3 P | 2     | 1     | 1     | 1     | 0   | 0     | 0   | 1     | 2     | 0     | 1     |
| 1.5.4 P | 3     | 2     | 0     | 0     | 0   | 0     | 0   | 1     | 0     | 2     | 2     |
| 1.5.5 P | 1     | 1     | 1     | 0     | 0   | 0     | 0   | 1     | 1     | 0     | 1     |
| 1.5.6 P | 0     | 2     | 2     | 2     | 0   | 0     | 0   | 1     | 0     | 0     | 1     |
| 1.5.7 P | 3     | 2     | 2     | 3     | 0   | 0     | 0   | 1     | 0     | 0     | 2     |
| 1.6.1 P | 3     | 3     | 3     | 2     | 0   | 0     | 0   | 1     | 0     | 0     | 0     |
| 1.6.3 P | 3     | 0     | 0     | 3     | 0   | 0     | 3   | 1     | 0     | 2     | 2     |
| 1.6.4 P | 3     | 3     | 3     | 2     | 2   | 0     | 0   | 1     | 0     | 0     | 0     |
| 1.6.5 P | 1     | 1     | 2     | 1     | 0   | 0     | 0   | 1     | 1     | 0     | 1     |
| 1.6.6 P | 3     | 2     | 2     | 0     | 0   | 0     | 0   | 1     | 0     | 2     | 2     |
| 1.6.1 T | 3     | 3     | 3     | 2     | 0   | 2     | 2   | 0     | 2     | 3     | 0     |

|         |       |      |      |      |   |      |     |      |       |   |       |
|---------|-------|------|------|------|---|------|-----|------|-------|---|-------|
| 1.6.2 T | 2     | 2    | 3    | 2    | 2 | 0    | 1   | 0    | 0     | 1 | 0     |
| 1.6.3 T | 2     | 0    | 0    | 2    | 0 | 0    | 0   | 0    | 0     | 0 | 3     |
| 1.6.4 T | 3     | 0    | 2    | 0    | 0 | 0    | 0   | 0    | 2     | 0 | 3     |
| 1.6.5 T | 2     | 0    | 2    | 0    | 0 | 0    | 0   | 0    | 1     | 0 | 1     |
| 1.6.6 T | 3     | 0    | 0    | 0    | 0 | 2    | 0   | 0    | 0     | 2 | 2     |
| 1.6.7 T | 3     | 3    | 3    | 0    | 1 | 3    | 3   | 3    | 3     | 0 | 1     |
| 1.7.1 T | 0.6   | 0.4  | 0.4  | 0.2  | 0 | 0    | 0   | 0    | 0.2   | 0 | 0.2   |
| 1.7.2 T | 0.6   | 0.6  | 0.4  | 0.2  | 0 | 0    | 0   | 0    | 0     | 0 | 0.2   |
| 1.7.3 T | 0.73  | 2.2  | 1.46 | 0.73 | 0 | 1.46 | 2.2 | 0    | 0     | 0 | 0.73  |
| 1.7.4 T | 0.4   | 0    | 0.2  | 0    | 0 | 0    | 0   | 0    | 0     | 0 | 0.4   |
| 1.7.5 T | 0.466 | 0    | 0    | 0    | 0 | 0    | 0   | 0    | 0.466 | 0 | 0.466 |
| 1.7.6 T | 0.6   | 0.4  | 0.4  | 0.4  | 0 | 0    | 0   | 0    | 0     | 0 | 0.4   |
| 1.7.7 T | 0.6   | 0    | 0.4  | 0.4  | 0 | 0    | 0   | 0    | 0     | 0 | 0.4   |
| 1.7.1 P | 3     | 3    | 3    | 1    | 0 | 0    | 0   | 1    | 0     | 0 | 1     |
| 1.7.3 P | 1     | 3    | 2    | 0    | 0 | 2    | 0   | 1    | 0     | 0 | 0     |
| 1.7.4 P | 3     | 2    | 2    | 2    | 0 | 0    | 0   | 1    | 0     | 2 | 2     |
| 1.7.6 P | 2.2   | 1.46 | 1.46 | 1.46 | 0 | 0    | 0   | 0.73 | 0     | 0 | 1.46  |
| 1.7.7 P | 3     | 2    | 2    | 2    | 0 | 0    | 0   | 1    | 0     | 0 | 2     |
| 1.8.1 P | 3     | 3    | 3    | 1    | 0 | 0    | 0   | 1    | 0     | 0 | 0     |
| 1.8.2 P | 2     | 3    | 2    | 0    | 0 | 0    | 0   | 1    | 0     | 0 | 1     |
| 1.8.3 P | 2     | 2    | 1    | 3    | 0 | 0    | 0   | 1    | 0     | 0 | 1     |
| 1.8.4 P | 2     | 2    | 2    | 0    | 0 | 0    | 0   | 1    | 2     | 0 | 1     |
| 1.8.5 P | 3     | 0    | 0    | 0    | 0 | 2    | 0   | 1    | 2     | 0 | 2     |
| 1.8.6 P | 3     | 2    | 2    | 2    | 0 | 0    | 0   | 1    | 0     | 0 | 0     |
| 1.8.1 T | 3     | 2    | 2    | 2    | 2 | 0    | 0   | 1    | 0     | 0 | 1     |
| 1.8.2 T | 3     | 3    | 3    | 2    | 0 | 0    | 0   | 0    | 0     | 0 | 1     |
| 1.8.3 T | 2     | 2    | 2    | 2    | 0 | 1    | 0   | 0    | 0     | 0 | 2     |
| 1.8.4 T | 2     | 2    | 0    | 2    | 0 | 0    | 2   | 2    | 0     | 2 | 2     |
| 1.8.5 T | 3     | 0    | 0    | 0    | 0 | 2    | 0   | 2    | 3     | 0 | 3     |
| 1.8.6 T | 3     | 2    | 3    | 3    | 1 | 2    | 2   | 0    | 0     | 0 | 2     |

**PO Attainment Level**

| Course              | PO1   | PO2   | PO3   | PO4   | PO5   | PO6  | PO7   | PO8   | PO9   | PO10  | PO11  |
|---------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| Direct Attainment   | 1.54  | 1.47  | 1.35  | 1.24  | 1.49  | 1.28 | 1.75  | 0.92  | 0.85  | 1.08  | 0.97  |
| Indirect Attainment | 2.711 | 2.526 | 2.415 | 2.566 | 2.242 | 2.47 | 2.614 | 2.426 | 2.314 | 2.134 | 2.311 |
| PO Attainment       | 1.77  | 1.68  | 1.56  | 1.51  | 1.64  | 1.52 | 1.92  | 1.22  | 1.14  | 1.29  | 1.24  |

4 STUDENTS' PERFORMANCE (180)

Total Marks 159.68

Total Marks 20.00

Table 4.1

| Item   | 2021-22 (CAY) | 2020-21 (CAYm1) | 2019-20 (CAYm2) | 2018-19 (CAYm3) | 2017-18 (CAYm4) | 2016-17 (CAYm5) | 2015-16 (CAYm6) |
|--|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sanctioned intake of the program(N)  | 100           | 100             | 75              | 60              | 60              | 60              | 60              |
| Total number of students admitted in first year (N1)                             | 118           | 117             | 77              | 63              | 65              | 63              | 63              |
| Number of students admitted in 2nd year in the same batch via lateral entry (N2) | 0             | 11              | 7               | 5               | 7               | 6               | 0               |
| Total number of students admitted in the programme(N1 + N2)                      | 118           | 128             | 84              | 68              | 72              | 69              | 63              |

4.1 Enrolment Ratio (20)

Institute Marks : 20.00

|         | N (From Table 4.1) | N1 (From Table 4.1) | Enrollment Ratio [(N1/N)*100] |
|---------|--------------------|---------------------|-------------------------------|
| 2021-22 | 100                | 118                 | 118.00                        |
| 2020-21 | 100                | 117                 | 117.00                        |
| 2019-20 | 75                 | 77                  | 102.67                        |

Average [ (ER1 + ER2 + ER3) / 3 ]: 112.56

Assessment: 20.00

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

Total Marks 43.20

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 |
| 2021-22 (CAY)   | 118  |   |         |          |         |
| 2020-21 (CAYm1) | 128  | 114   |         |          |         |
| 2019-20 (CAYm2) | 84   | 46  | 53      |          |         |
| 2018-19 (CAYm3) | 68   | 24  | 29      | 29       |         |
| 2017-18 (LYG)   | 72   | 49  | 51      | 51       | 50      |
| 2016-17 (LYGm1) | 69   | 54  | 56      | 50       | 50      |
| 2015-16 (LYGm2) | 63   | 54  | 51      | 49       | 49      |

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)<br>[Total of with Backlog + without Backlog] |         |          |         |
|-----------------|--|--|---------|----------|---------|
|                 |  | I year   | II year | III year | IV year |
| 2021-22 (CAY)   | 118  |  |         |          |         |
| 2020-21 (CAYm1) | 128  | 114  |         |          |         |
| 2019-20 (CAYm2) | 84   | 77   | 83      |          |         |
| 2018-19 (CAYm3) | 68   | 63   | 68      | 68       |         |
| 2017-18 (LYG)   | 72   | 64   | 70      | 70       | 70      |
| 2016-17 (LYGm1) | 69   | 60   | 64      | 64       | 64      |
| 2015-16 (LYGm2) | 63   | 63   | 62      | 61       | 61      |

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

Institute Marks : 24.00

| Item  | Latest Year of Graduation, LYG<br>(2017-18) | Latest Year of Graduation minus 1, LYGM1<br>(2016-17) | Latest Year of Graduation minus 2 LYGM2<br>(2015-16) |
|---|---|---|--|
| X<br>Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry | 72.00                                       | 69.00   | 63.00  |
| Y<br>Number of students who have graduated without backlogs in the stipulated period                      | 50.00                                       | 50.00   | 49.00  |

Average SI [ (SI1 + SI2 + SI3) / 3 ] : 0.80

Assessment = 30 \* Average SI : 24.00

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

Institute Marks : 19.20

| Item  | Latest Year of Graduation, LYG<br>(2017-18) | Latest Year of Graduation minus 1, LYGM1<br>(2016-17) | Latest Year of Graduation minus 2 LYGM2<br>(2015-16) |
|---|---|---|--|
| X<br>Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry | 72.00                                       | 69.00   | 63.00  |
| Y<br>Number of students who have graduated in the stipulated period                                       | 70.00                                       | 64.00   | 61.00  |
| Success Index [ SI = Y / X ]  | 0.97  | 0.93  | 0.97   |

Average SI[ ( SI1 + SI2 + SI3 ) / 3 ] : 0.96

Assessment = 20 \* Average SI : 19.20

**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 7.36

Institute Marks : 7.36

| Academic Performance  | 2017-18 (LYG) | 2016-17 (LYGM1) | 2015-16 (LYGM2) |
|---|---------------|-----------------|-----------------|
| Mean of CGPA or mean percentage of all successful students(X) | 7.37          | 7.64            | 7.07            |
| Total number of successful students(Y)                        | 70.00         | 64.00           | 61.00           |
| Total number of students appeared in the examination(Z)       | 70.00         | 64.00           | 61.00           |
| API [ X*(Y/Z) ]:  | 7.37          | 7.64            | 7.07            |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.36

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.36

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

Total Marks 7.55

| Academic Performance  | CAYm3 (2018-19) | LYG (2017-18) | LYGm1 (2016-17) |
|---|-----------------|---------------|-----------------|
| Mean of CGPA or mean percentage of all successful students(X) | 8.20            | 7.80          | 6.64            |
| Total number of successful students (Y)                       | 68.00           | 70.00         | 64.00           |
| Total number of students appeared in the examination (Z)      | 68.00           | 70.00         | 64.00           |
| API [ X * (Y/Z) ]   | 8.20            | 7.80          | 6.64            |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.55

Academic Performance = Average API [ (AP1 + AP2 + AP3)/3 ] : 7.55

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

Total Marks 7.39

Institute Marks : 7.39

| Academic Performance  | 2019-20 (CAYm2) | 2018-19 (CAYm3) | 2017-18 (LYG) |
|---|-----------------|-----------------|---------------|
| Mean of CGPA or mean percentage of all successful students(X) | 8.13            | 7.73            | 6.51          |
| Total number of successful students(Y)                        | 83.00           | 68.00           | 70.00         |
| Total number of students appeared in the examination(Z)       | 84.00           | 68.00           | 71.00         |
| API [ X*(Y/Z) ]:  | 8.03            | 7.73            | 6.42          |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.39

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.39

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

Total Marks 15.38

Institute Marks : 15.38

| Academic Performance  | 2020-21 (CAYm1) | 2019-20 (CAYm2) | 2018-19 (CAYm3) |
|---|-----------------|-----------------|-----------------|
| Mean of CGPA or mean percentage of all successful students(X) | 8.47            | 7.83            | 6.99            |
| Total number of successful students(Y)                        | 114.00          | 77.00           | 63.00           |
| Total number of students appeared in the examination(Z)       | 117.00          | 77.00           | 63.00           |
| API [ X*(Y/Z) ]:  | 8.25            | 7.83            | 6.99            |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.69

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.69

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

Total Marks 38.80

| Item   | 2017-18 (LYG) | 2016-17 (LYGm1) | 2015-16 (LYGm2) |
|--|---------------|-----------------|-----------------|
| Total No of Final Year Students(N)   | 70.00         | 64.00           | 61.00           |
| Number of students placed in Industries/ Hospitals/ Government sector through on/off campus recruitment or opted for Entrepreneurship(x) | 26.00         | 23.00           | 30.00           |
| No. of students admitted to higher studies with valid scores in various qualifying exams(y)  | 40.00         | 39.00           | 31.00           |
| Placement Index [ (X + Y)/N ] :  | 0.94          | 0.97            | 1.00            |

Average Placement [ (X + Y)/N ] : 0.97

Assessment [ 40 \* Average Placement] : 38.80

#### 4.8 Professional Activities (20)

Total Marks 20.00

##### 4.8.1 Professional societies / chapters and organizing pharmacy events (5)

Institute Marks : 5.00

###### 4.8.1 Professional societies / chapters and organizing pharmacy events (5)

Events Held

| SR. NO | NAME OF THE ACTIVITY  | NATURE OF THE ACTIVITY   | DATE           | VENUE   | ASSOCIATED PROFESSIONAL SOCIETY / BODY  |
|--------|---|--------------------------|----------------|---|---|
| 1.     | 53 <sup>RD</sup> ANNUAL INTERNATIONAL CONFERENCE OF THE INDIAN HOSPITAL PHARMACISTS | INTERNATIONAL CONFERENCE | FEBRUARY 2018  | RAJIV GANDHI KALA MANDIR, PONDA, GOA                  | PHARMACOVIGILANCE DIVISION, INDIAN PHARMACOPEIA COMMISSION. SUPPORTED BY HOSPITAL PHARMACY FOUNDATION |
| 2.     | FREE HEALTH CHECK UP (CAMP)   | HEALTH CAMP              | NOVEMBER 2018  | SPORTS COMPLEX  | IPA   |
| 3.     | FACULTY DEVELOPMENT PROGRAMME – INDUSTRIAL PHARMACY I                               | FDP                      | SEPTEMBER 2019 | PESS RAJARAM AND TARABAI BANDEKAR COLLEGE OF PHARMACY | ICT, DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY   |
| 4.     | ONLINE CONTINUED PHARMACY EDUCATION PROGRAMME                                       | CPE                      | MAY 2021       | ONLINE MODE   | GOA STATE PHARMACY COUNCIL, IPA-CPD GOA BRANCH  |

|   |   |     |          |   |  |
|---|---|-----|----------|---|--|
| 5 | OFFINE -<br>CONTINUED<br>PHARMACY<br>EDUCATION<br>PROGRAMME | CPE | MAY 2022 | OFFLINE<br>(PESs<br>RAJARAM<br>AND<br>TARABAI<br>BANDEKAR<br>COLLEGE<br>OF<br>PHARMACY) | GOA STATE<br>PHARMACY COUNCIL,<br>IPA-CPD GOA BRANCH |
|---|---|-----|----------|---|--|

## Lectures Conducted

| SR.<br>NO. | NAME OF THE PRESENTER   | TOPIC  | DATE        | ASSOCIATED<br>PROFESSIONAL<br>SOCIETY / BODY  |
|------------|---|--|-------------|---|
| 1          | MR. MANGESH SAHANE<br>(GENERAL MANAGER,<br>REGULATORY AFFAIRS,<br>UNICHEM LABORATORIES<br>LTD, GOA) | "SUPAC"  | 13/02/2021  | V CONNECT<br>SERIES   |
| 2          | MR. SOHAM SAGAR<br>(SENIOR SCIENTIST II AND<br>TEAM LEADER, VERGO<br>PHARMA RESEARCH<br>LIMITED)    | "ICH GUIDELINES"   | 26/02/2021  | V CONNECT<br>SERIES   |
| 3          | DR V.P RATABOLI   | "LOOK ALIKE<br>SOUND<br>ALIKEDRUG<br>NAMES AND DRUG<br>BRANDS:<br>NIGHTMARE OF<br>DOCTERS AND<br>PHARMACIST" | 08/05/2021  | IN ASSOCIATION<br>WITH GOA STATE<br>PHARMACY<br>COUNCIL AND IPA<br>-CPD<br>GOA BRANCH |
| 4          | DR TEJAS KAMAT  | "COVID VACCINE<br>MYTHS AND<br>FACTS: WHAT WE<br>SHOULD KNOW"  | 08/05/2021  | IN ASSOCIATION<br>WITH GOA STATE<br>PHARMACY<br>COUNCIL AND IPA<br>-CPD<br>GOA BRANCH |
| 5          | MR. MAHESH ZAGADE<br>(FORMER COMMISSIONER,<br>FDA, MAHARASHTRA<br>STATE)                            | "COMMUNITY<br>PHARMACIST: THE<br>BACKBONE OF<br>PATIENT -CARE<br>SYSTEM"                                     | 13/06 /2021 | IN<br>COLLABORATION<br>WITH WRC-APCI  |

|    |   |  |            |                                      |
|----|---|--|------------|--------------------------------------|
| 6  | VIJAY BHASKAR<br>(ASSOCIATE PROFESSOR,<br>DEPARTMENT OF<br>PHARMACEUTICAL<br>CHEMISTRY, MANIPAL<br>COLLEGE OF PHARMACY,<br>KARNATAKA)<br><br>DR GIRISH HAMPPANNAVAR<br>(ASSOCIATE PROFESSOR,<br>DEPARTMENT OF<br>PHARMACEUTICAL<br>CHEMISTRY, K.L.E<br>COLLEGE OF PHARMACY,<br>KARNATAKA) | "UNDERSTANDING<br>PRACTICE<br>SCHOOL"  | 19/06/2021 | V CONNECT<br>SERIES                  |
| 7  | PROF (DR) ASHISH BALDI<br>(MRSPT UNIVERSITY,<br>BHATINDA, PUNJAB)   | "CONFRONTING<br>THE REALITY OF<br>COMMUNITY<br>PHARMACIES: THE<br>UNSPOKEN TRUTH<br>& WAYS AHEAD"    | 26/06/2021 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 8  | MR . VAIBHAV NIGALYE<br>(PHARMACIST MANAGER<br>JHOOTS PHARMACY<br>SWIDON- WHILTSHIRE UK)  | "REGISTRATION<br>AS A PHARMACIST<br>AND CAREER<br>OPPORTUNITIES<br>IN UNITED<br>KINGDOM"             | 29/6/2021  | RE-CONNECT<br>SERIES                 |
| 9  | MR GIRISH KULKARNI<br>(ASSOCIATE VICE-<br>PRESIDENT, SALES AND<br>MARKETING, INTAS<br>PHARMACEUTICALS,<br>AHMEDABAD,<br>MEDICOLOGICAL EXPERT)   | "IMPLICATIONS<br>FOR COMMUNITY<br>PHARMACY<br>PRACTICE IN<br>INDIA"                                  | 10/07/2021 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 10 | PROF,(DR.) MD<br>SALAHUDDIN<br>( PRINCIPAL<br>AL AMEEN COLLEGE OF<br>PHARMACY)  | "GOING BEYOND<br>DISPENSING: THE<br>DYNAMIC ROLES<br>OF PHARMACIST<br>IN THE<br>HEALTHCARE<br>ARENA" | 24/07/2021 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 11 | MR DURGESH PAI ANGLE<br>(GENERAL MANAGER,<br>HUMAN RESOURCES,<br>UNICHEM LABORATORIES<br>LTD, GOA)  | "KEYS TO<br>SUCCEED IN<br>COMPETENCY<br>BASED<br>INTERVIEW"  | 24/07/2021 | V CONNECT<br>SERIES                  |

|    |  |  |            |                                      |
|----|--|--|------------|--------------------------------------|
| 12 | MS SIYA KUNDE<br>(EXECUTIVE,VERGO<br>PHARMA, RESEARCH<br>LABORATOROES,PVT.<br>LTD,GOA.)  | "ROLE OF<br>PROJECT<br>MANAGEMENT IN<br>PHARMACEUTICAL<br>INDUSTRY"                          | 30/07/2021 | RE-CONNECT<br>SERIES                 |
| 13 | DR PADNABH V. RATABOLI   | "PREDISPENSING<br>CONSIDERATIONS<br>AND<br>PRESCRIPTION<br>AUDIT:<br>PHARMACIST<br>APPROACH" | 14/08/2021 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 14 | MR .RAJ VAIDYA<br>(COMMUNITY<br>PHARMACIST, HINDU<br>PHARMACY, PANAJI)   | "COMMUNITY<br>PHARMACY: NOW<br>IT IS TIME FOR<br>ACTION"                                     | 29/08/2021 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 15 | MR AAKASH NATHANI<br>(NIPER ALUMNUS)   | "STRATEGY FOR<br>GPAT AND NIPER<br>PREPARATION"  | 25/09/2021 | V CONNECT<br>SERIES                  |
| 16 | DR ANANT SURYAWANSHI<br>(MBBS, MD,MED, EX<br>ASSOCIATE PROFESSOR,<br>MEDICINE, DIRECTOR,<br>PHNOEX MULTI<br>SPECIALITY HOSPITAL,<br>NANDED)<br><br>DR SHRUTI KALKEKAR<br>(MBBS, DCH, PGPN<br>(BOSTON), DIRECTOR, DR<br>KALKEKAR CURA CLINIC,<br>SEAWOODS, NAVI MUMBAI) | "ADJUSTING TO<br>THE NEW<br>NORMAAL"   | 13/02/2022 | IN<br>COLLABORATION<br>WITH WRC-APCI |
| 17 | DR.(MRS.) AKSHADA AMIT<br>KOPARDE<br>(M.PHARM. PH.D,<br>ASSISTANT PROFESSOR,<br>DEPARTMENT OF<br>PHARMACEUTICAL<br>CHEMISTRY, KRISHNA<br>INSTITUTE OF PHARMACY,<br>KIMSDU, KARAD)  | "SCIENTIFIC<br>ASPECTS OF<br>DRUG<br>DEVELOPMENT"  | 11/04/2022 | V CONNECT<br>SERIES                  |

|    |   |  |             |                     |
|----|---|--|-------------|---------------------|
| 18 | DR MANJUNATH KATAGI<br>(ASSISTANT PROFESSOR,<br>DEPARTMENT OF<br>PHARMACEUTICAL<br>CHEMISTRY, BAPUJI<br>COLLEGE OF PHARMACY,<br>DAVENGERE, KARNATAKA) | "CONCEPTUAL<br>CONCERN OF<br>RESEARCH<br>METHODS"              | 11/04/2022  | V CONNECT<br>SERIES |
| 19 | MR RAVINDRA SARDESSAI<br>(ASSISTANT MANAGER,<br>QUALITY ASSURANCE,<br>FRESENIUS KABI INDIA<br>PVT LTD.)   | "CAREER<br>OPPORTUNITIES<br>IN<br>PHARMACEUTICAL<br>INDUSTRIES | "29/04/2022 | V CONNECT<br>SERIES |

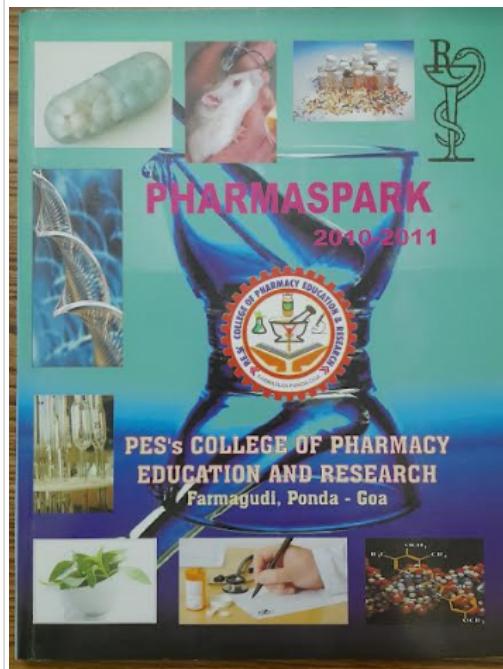
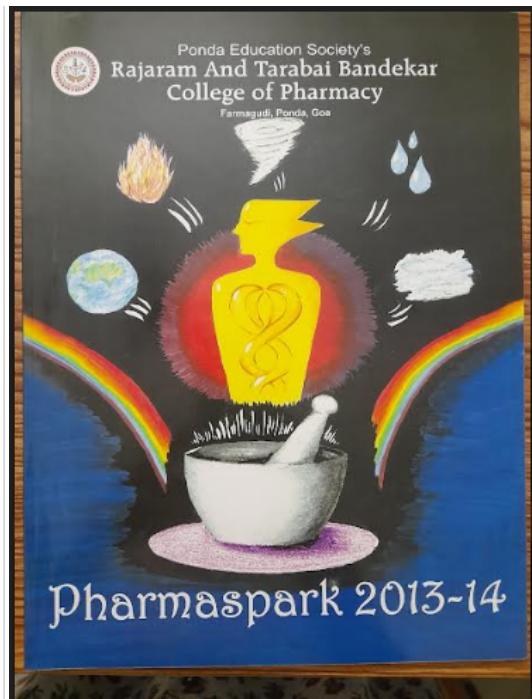
**4.8.2 Publication of technical magazines, newsletters, etc. (5)**

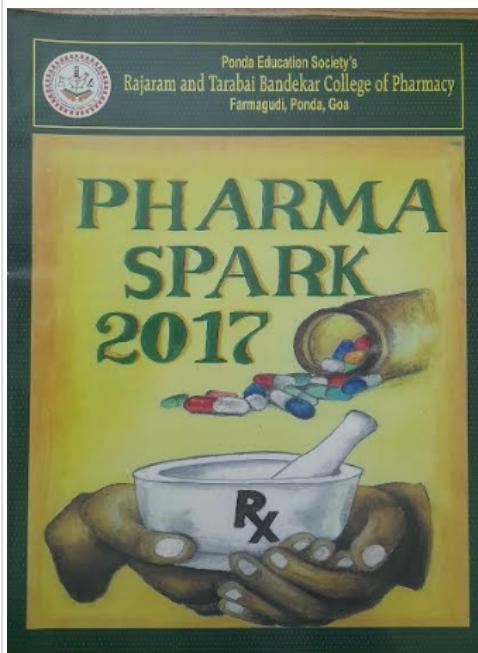
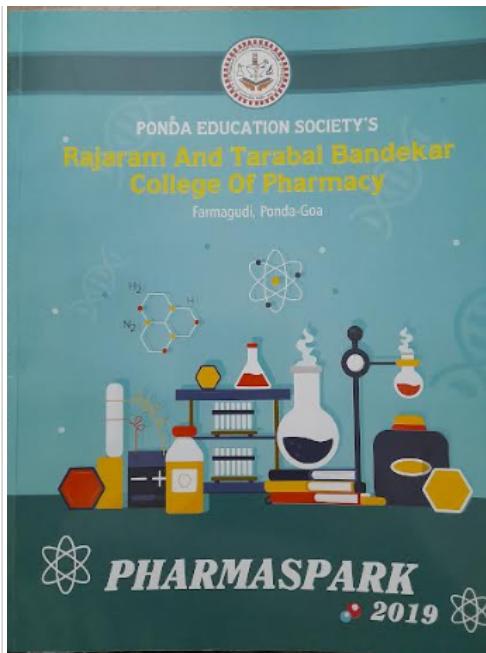
Institute Marks : 5.00

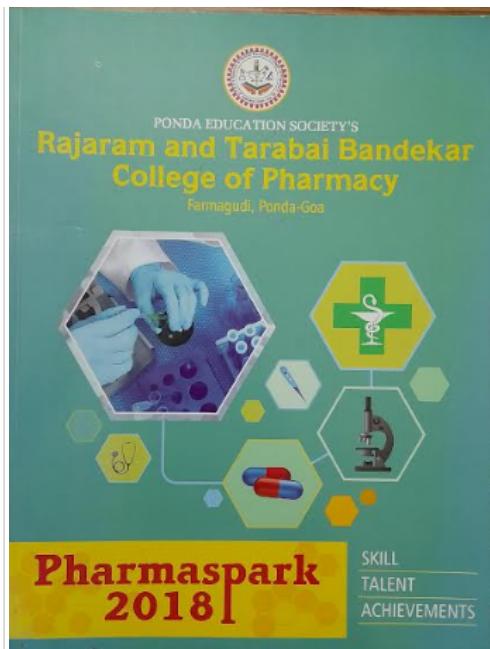
**4.8.2 Publication of technical magazines, newsletter, etc. (5)**

Every Year College Magazine "Pharma Spark" is released containing technical articles written by teachers and students.

Following are the specimens of the college magazine coverpage - Pharmaspark published every year along with few specimens of technical articles .







Pharmaspark 2018-19

**Placebo Effect**

"Placebo" is anything that seems to be real but really not. If we relate and apply this to the field of pharmacy or medicine then it could be a tablet, injectable or any other type of "fake" agent. It is an inert substance that has no pharmacological medical action but has actual effects which are experienced by the person who is subjected to that inert substance. This is the "placebo effect." It is a real phenomenon which occurs within the brain and is also found to increase the effectiveness of a drug even before the drug is actually administered.



The belief of the patient in the medication and their expectations towards the effects of the treatment are found to affect the functions of our brain which include any activities involving with the reception of pain and the placebo response. Also the thalamus, a major station of the brain which receives the incoming signals from the rest of the body and connects them to the other parts of the system to be processed and ultimately generate the effects of our belief. The placebo response also involves some of the frontal regions of the brain which are involved in execution of functions, thought processing and memory. All these together work to set up the expectations and beliefs of the patient that ultimately result into and are acted upon by the placebo effect. Placebo shows a complex neurobiological reaction that involves increase in neurotransmitters like endorphins and dopamine, to greater activity in certain brain regions linked to mood, emotional reactions and self-awareness, all of which can have therapeutic benefits.

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*Pharmaspark 2017-18*

## NUTRITION AND BALANCE DIET

### NUTRITION

Nutrition is the science that deals with food and its uses by the body. Food supplies the energy for every action we undertake. Food also provides material that our body needs to build up and repair its tissues and to regulate the functions of its organs and systems.

It helps the body to grow and replaces worn out tissues.

It has the chemicals, which help to control the body functions and protect the body from diseases.

### Factors Affecting Diet

- Age, Sex and Body surface area: Diet differs from age to age. Young ones need different types of food both in quality as well as quantity as compared to older people who need diet in less quantity and with lesser fats.
- Types and duration of activity: Diet also depends on types of activity that we do and its duration. An athlete involving in vigorous training needs more calorie food as compared to office peoples. A sedentary person requires light food whereas a worker who does eight to ten hours hard work needs good diet.
- Eating habits and social customs: Eating habits and social customs also affect the diet of an individual. Some individuals are habitual of eating fast food whereas others do not like it. Similarly, our social customs play an important role in food preparation. A section of society prefers non-vegetarian food whereas in other sections of society only prefer the vegetarian food.
- Climatic factors: Food is varied in different climates. As you have an experience of having different diet in summer and winter. Similarly, people living in different climatic zones have different foods.

**BALANCE DIET**

Balance diet is the intake of appropriate types and adequate amounts of foods, divided to supply nutrition for the maintenance of body cells, tissues and organs and to support normal growth and development.

Balance diet is that which contains the proper amount of each nutrient.

**Actions of Diet**

It provides energy for the various activities of the body.

*Pharmaspark 2018-19*

## Benefits of Juices

### Guava Juice

Rich in Vitamin A, C, E and folic acid. It is good for heart and prevents heart attack and blockage in arteries. It helps to remove worms from the body. It reduces the risk of cancer in prostate and lungs. It is good for enhancing haemoglobin content as well. It is excellent for pregnant women. It is also known for its astringent properties.

### Avocado Juice

It is good for pregnant women because of its higher folic acid content thereby helping in growth and development of fetus. It contains high amounts of haemoglobin and red blood cells. Often suggested for anaemic patients. It is good for cholesterol related heart diseases as it contains oleic acid that lowers cholesterol levels. It is good for breast and prostate cancer. It acts as an anti-ageing agent and given to patients of stroke too. It maintains blood pressure due to presence of potassium.

### Apple Juice

Contains quercetin which is known for its anti-cancerous and anti-inflammatory activity. It reduces the bad cholesterol level, blood pressure and blood sugar. It reduces heart problems. It is good for arthritic and rheumatic patients owing to potassium content. Due to presence of pectin it helps to remove dirt present in the gut. It helps to remove toxins from the body and improve digestion. When taken with milk and honey it is good for pregnant women as it helps to ease anaemia. It is good for solving nerves related problems.

### Strawberry Juice

Contains anti-oxidant named as ellagic acid which blocks the entry of free radicals in the body. It is also known as anti-cancerous agent known for skin cleansing to minimise pimples, wrinkles etc. It helps to minimise cancer impact on lungs, breast and cervix. It helps to remove tartar from gums and has capacity to clean digestive system. It reduces joint pain.

### Orange Juice

It is rich in Vitamin C and strengthens the immune system and prevents cold. It helps to reduce bad cholesterol as well as controls blood pressure levels. It contains abundant anti-oxidants. It helps to clear plaque and enhances heart function. It is due to presence of folate it acts as a rejuvenating agent. It acts as an anti-inflammatory agent and also increases the appetite.

Pharmaspark 2018-19

**Schizophrenia**

Schizophrenia is a chronic and severe disorder that affects how a person thinks, feels and acts. Though schizophrenia is not as common as other mental disorders, it can be very disabling. Approximately 7 or 8 individuals out of 1000 will develop schizophrenia at their lifetime.

Schizophrenia means 'split personality'. The prefix 'schizo' means 'split'. The term was popularized by Eugen Bleuler in 1911 to describe patients where 'incoherent' feelings are derived from emotions.

The term schizophrenia was chosen to emphasize the lack of integration of personality of some people.

For example, their emotional feelings were not integrated or related to their intellectual feelings and they laughed at sad events or their intellectual feelings were not integrated with their emotions and they heard voices in the absence of direct sensory stimulation. People with schizophrenia may cope with problems throughout their lives but cannot help many to recover and pursue their goals.

Researchers are developing more effective treatments and using new research tools to investigate the causes of schizophrenia.

Symptoms are categorized as positive, negative and cognitive symptoms.

**Positive symptoms**

People with positive symptoms may have basic or some aspects of reality. For some people

These symptoms may come and go and for some they stay static over time, sometimes they are severe. These include:

- Hallucination: an sensory experience that occur in the absence of stimulus.
- Delusion: are strongly held false beliefs that are not consistent with the person's culture.

**Negative symptoms**

These symptoms include:

- Stagnated/reduced expression of emotions/ facial expression or voice (affect)
- Reduced feelings of pleasure in everyday life
- Difficulty beginning and sustaining activities
- Reduced speaking

**Cognitive symptoms** include:

- Poor / executive functioning (ability to understand information and use it to make decisions)
- Trouble focusing or paying attention
- Problems with 'working memory' (the ability to use information immediately after learning it)

**Causes of schizophrenia**

Researchers believe that a combination of genetics, brain chemistry and environment contributes to development of disorder.



Pharmaspark 2017-18

**GREEN CHEMISTRY**

Green chemistry is the utilization of a set of principles that either minimizes or eliminates the use or generation of hazardous substances in the design, manufacture, and application of chemical products.

**ISTORY:**

The term green chemistry was first used in 1991 by Paul Anastas in a special program launched by the US Environmental Protection Agency (EPA) to implement sustainable development in chemistry and chemical technology by industry, academia and government.

**10 PRINCIPLES OF GREEN CHEMISTRY:**

- 1) Prevent Waste: It is better to prevent waste than to treat or clean up waste after it has been created.
- 2) Atom Economy: Synthetic methods should be designed to maximize the incorporation of all materials used in the process into final product.
- 3) Less Hazardous Chemical Synthesis: Whenever practicable, synthetic methods should be designed to use and generate substances that possess little or no toxicity to human health and the environment.
- 4) Design Safer Chemicals: Chemical products should be designed to effect their desired function while minimizing toxicity.
- 5) Safer Solvents And Auxiliaries: The use of auxiliary substances (e.g. Solvents, separation agents, etc.) should be made unnecessary whenever possible and innocuous when used.
- 6) Design For Energy Efficiency: Energy requirements should be recognized for their environmental and economic impacts and should be minimized. Synthetic methods should be conducted at ambient temperature and pressure.
- 7) Use Of Renewable Feedstocks: A raw material or feedstock should be renewable rather than depleting whenever technically and economically practicable.
- 8) Reduced Derivatives: Unnecessary derivatization should be avoided whenever possible.
- 9) Catalysis: Catalytic reagents are superior to stoichiometric reagents.
- 10) Design For Degradation: Chemical products should be designed so that at the end of their function they breakdown into innocuous degradation products and do not persist in the environment.

**11) Real Time Analysis For Pollution Prevention:**

Analytical methodologies need to be further developed to allow for real time in process monitoring and control prior to the formation of hazardous substances.

**12) Inherently Safer Chemistry For Accident Prevention:**

Process design and the form of substances used in a chemical process should be chosen to minimize the potential for chemical accidents, including releases, explosion and fires.

**BENEFITS OF GREEN CHEMISTRY:**

- Reduced waste treatment and disposal costs.
- Ability to capitalize on the environmental technology marketplace by designing new greener products.
- Business benefits of green chemistry include improved resource efficiency and lower raw material and utility bills.
- Improved health and safety for staff and customer.
- Lower levels of chemicals released to the environment.
- Cleaner production technologies.
- Reduced emission and product impacts.

**THE BIGGEST CHALLENGE OF GREEN CHEMISTRY IS TO USE ITS RULES IN PRACTICE.**

- Shefali Phadte  
Second Year B Pharm

Pharmaspark 2017-18

## Fragrances in Pharmaceutical Industries

According to the U.S. Food and Drug Regulation, a fragrance is "any natural or synthetic substance or mixture used solely to impart an odor to a cosmetic, drug, or food."

Fragrances are complex combinations of natural and synthetic substances that are added to many consumer products to give them a distinctive smell. Fragrances are used in a wide variety of products to mask a pleasant odor, mask the inherent smell of an ingredient, and enhance the experience of the product.

Fragrances create important benefits that are often tangible and valued. They have important medical, social, and psychological benefits.

Fragrances help in reducing anxiety, reducing feelings of cleanliness, freshness, or softening stress, creating "feel-good" being, and giving allure and attractiveness. Good smells promote good personality of the person, decisiveness of the surrounding in the mind of people, and improve one's well-being.

Fragrances are used in cosmetics and personal care products and pharmaceuticals.

Fragrances used in cosmetics and personal care products are used to be applied to a person's body to make the person more attractive, as a cosmetic or perfume.

Sense of smell is directly connected to the brain's olfactory system, which is a system of memory and our most primitive. Numerous studies confirm that pleasant odors well-being and have a positive effect on the psyche. Often a particular fragrance that is strongly associated with product identity and quality.

Fragrances are used in various countries like soaps, lotions, after shave lotions, moisturizers, sprays, etc.

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Pharmaspark 2017-18

## INSULIN THERAPY

Diabetes mellitus (diabetes) is a group of metabolic disorders in which there is a high blood sugar levels over a prolonged period.

Diabetes mellitus is either due to the pancreas not producing enough insulin or the cells of the body not responding properly to insulin produced.

There are three main types of diabetes mellitus:

- Type 1 Diabetes mellitus** (The pancreas fail to produce enough insulin)
- Type 2 Diabetes mellitus** (Insulin resistance or a condition wherein the cells do not respond to the insulin properly)
- Gestational diabetes** (this occurs when pregnant women with previous history of diabetes develop high blood sugar levels during pregnancy)

| Stage | Diabetes Mellitus | Diabetes Response   |
|-------|-------------------|---|
| 1     | Type 1            | Hypersecretion of insulin, blood glucose levels are high, insulin resistance, hyperglycemia, ketoacidosis, ketosis, vomiting, thirst and poor nutrition   |
| 2     | Type 2            | Insulin resistance, reduced insulin, and insulin secretion. Insulin resistance may also include increased insulin resistance, insulin resistance, and insulin resistance due to diabetes, obesity, etc. |

A working pancreas continually secretes small amount of insulin into the blood to maintain normal glucose levels, which would otherwise rise from glucose release by the liver, especially early in the morning. The insulin is referred as basal insulin secretion and contributes almost half the insulin produced by the body.

Basal insulin is produced during the digestion of meals.

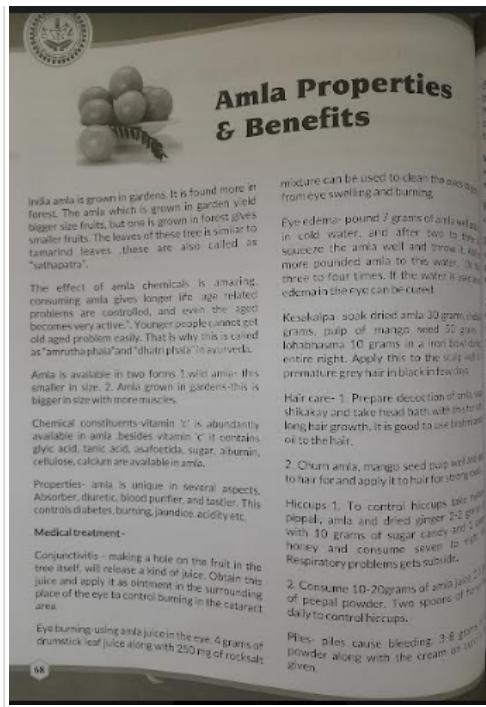
Two common regimens: pens, pumps and pumps

- One method of insulin therapy used is daily injection (MDI)
- Meal insulin is supplied by injection of insulin before each meal.

Regimens of rapid-acting insulin include:

- Regular insulin (Huminsulin R, Novolin R)
- Insulin lispro (Humalog)
- Promtide insulin zinc (semisynthetic insulin)
- Basal insulin is provided as a once daily injection of dose of a long-acting insulin

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

Institute Marks : 10.00

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

| SR. NO | NAME OF THE PARTICIPANT | EVENT / YEAR  |
|--------|-------------------------|---|
| 1.     | ANISHA NAIK             | SCIENTIFIC PAPER PRESENTATION FOR 53 <sup>RD</sup> IHPA ANNUAL INTERNATIONAL CONFERENCE - 2018  |
| 2.     | MRUNMAYEE NAIK          | SCIENTIFIC PAPER PRESENTATION FOR 53 <sup>RD</sup> IHPA ANNUAL INTERNATIONAL CONFERENCE - 2018  |
| 3.     | PORNIMA BORKAR          | SCIENTIFIC PAPER PRESENTATION FOR 53 <sup>RD</sup> IHPA ANNUAL INTERNATIONAL CONFERENCE - 2018  |
| 4.     | SHIVANI KUNKOLIKAR      | 2 <sup>ND</sup> PLACE IN POSTER COMPETITION FOR MAKING EQUALITY A REALITY ORGANIZED BY GOA UNIVERSITY'S DEPARTMENT OF WOMEN STUDIES – 2018  |
| 5.     | AISHWARYA PARVATKAR     | SCIENTIFIC PAPER PRESENTATION IN INTERNATIONAL CONFERENCE ON CURRENT RESEARCH AND INNOVATIONS IN HEALTH CARE SYSTEMS, GOA – SEPTEMBER 2019. |

|     |                    |   |
|-----|--------------------|---|
| 6.  | PUNITA NAIK        | SCIENTIFIC PAPER PRESENTATION IN INTERNATIONAL CONFERENCE ON CURRENT RESEARCH AND INNOVATIONS IN HEALTH CARE SYSTEMS, GOA – SEPTEMBER 2019.                         |
| 7.  | SWANNA DIAS        | SCIENTIFIC PAPER PRESENTATION IN INTERNATIONAL CONFERENCE ON CURRENT RESEARCH AND INNOVATIONS IN HEALTH CARE SYSTEMS, GOA – SEPTEMBER 2019.                         |
| 8.  | ANKITA BHANGUI     | SCIENTIFIC PAPER PRESENTATION IN INTERNATIONAL CONFERENCE ON CURRENT RESEARCH AND INNOVATIONS IN HEALTH CARE SYSTEMS, GOA – SEPTEMBER 2019.                         |
| 9.  | SHUBHAM JOSHI      | SECURED THIRD PLACE FOR SCIENTIFIC PAPER PRESENTATION IN INTERNATIONAL CONFERENCE ON CURRENT RESEARCH AND INNOVATIONS IN HEALTH CARE SYSTEMS, GOA – SEPTEMBER 2019. |
| 10. | SHIVANI KUNKOLIKAR | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 11. | HUZEFA UJJAINWALA  | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 12. | GAGAN PRIOLKAR     | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 13. | VAIDEH NABAR       | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 14. | VAISHNAVI KAPDI    | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 15. | SHUBHAM JOSHI      | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 16. | SURESH MANDORA     | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 17. | SANELY PERRIERA    | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |
| 18. | SWETA PRABHU       | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019, HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL COLLEGE, CHENNAI   |

|     |                      |   |
|-----|----------------------|---|
| 19. | ANEKA SANGAVKAR      | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 20. | SHYNA RODRIGUES      | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 21. | RISHITA SINGH        | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 22. | LARISSA GOMES        | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 23. | SHRUSHTI CHOUGULE    | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 24. | SANKET NAIK          | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 25. | KRUTUJA CHOUGULE     | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 26. | MANALI BAKRE         | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 27. | ZEESHAN FERNANDES    | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 28. | MOULI TIRUKKOVALLURI | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 29. | VISHWANI NAIK        | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 30. | SAHILI NAIK          | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 31. | TANVI NAIK           | PARTICIPATED IN ALL INDIA PHARMACY QUIZ 2019,<br>HELD BY COLLEGE OF PHARMACY MADRAS MEDICAL<br>COLLEGE, CHENNAI |
| 32. | CHINMAYI DHAWALIKAR  | IPA PRIZE – HIGHEST MARKS – B.PHARM<br>EXAMINATION – 2019   |
| 33. |                      | CADILA HEALTH CARE PRIZE – HIGHEST MARKS<br>B.PHARM, 2019   |

|     |                  |  |
|-----|------------------|--|
| 34. |                  | SARASWATI RAMCHANDRA VAIDYA PRIZE FOR HIGHEST MARKS B.PHARM - 2019   |
| 35. | URJA NADKARNI    | SARASWATI RAMCHANDRA VAIDYA PRIZE FOR HIGHEST MARKS IN DISPENSING FIRST B.PHARM - 2019   |
| 36. |                  | IPA PRIZE FOR HIGHEST MARKS IN DISPENSING FIRST B.PHARM - 2019   |
| 37. | VIVEK NAIK       | SCIENTIFIC PAPER PRESENTATION AT INTERNATIONAL CONFERENCE ON ADVANCE IN PHARMACEUTICAL AND HEALTH SCIENCES AT MANGALORE – 2020 |
| 38. | KRUTIKA KUDASKAR | PARTICIPATED AS DELEGATE AT INTERNATIONAL CONFERENCE ON ADVANCE IN PHARMACEUTICAL AND HEALTH SCIENCES AT MANGALORE – 2020      |
| 39. | SIDDHI MANERIKAR | PARTICIPATED AS DELEGATE AT INTERNATIONAL CONFERENCE ON ADVANCE IN PHARMACEUTICAL AND HEALTH SCIENCES AT MANGALORE – 2020      |

## 5 FACULTY INFORMATION AND CONTRIBUTIONS (175)

Total Marks 130.49

| 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? |
|------|---------|-------------------|--------------------------|------------------------|-----------------------------|---------------|---|---------------------|---|-------------------------|------------------|---|--------------------------------|---------|
|      |         |                   |                          |                        |                             |               |   |                     |   |                         |                  |   |                                |         |

|                                 |            |                  |            |                          |    |    |    |                     |            |            |         |     |  |     |
|---------------------------------|------------|------------------|------------|--------------------------|----|----|----|---------------------|------------|------------|---------|-----|--|-----|
| Dr. S.N. Mamledesai             | ACXPM9637N | M.Pharm and Ph.D | 26/03/2011 | Pharmaceutical Chemistry | 37 | 01 | 00 | Professor           | 01/09/2011 | 01/09/2011 | Regular | Yes |  | Yes |
| Dr. Celina Nazareth             | ACSPD8003C | M.Pharm and Ph.D | 05/05/2017 | Pharmaceutical Chemistry | 12 | 00 | 00 | Associate Professor | 14/07/2011 | 14/07/2008 | Regular | Yes |  | No  |
| Dr. Suwarna Bobde               | AQIPB2517M | M.Pharm and Ph.D | 19/11/2020 | Pharmaceutics            | 05 | 00 | 00 | Assistant Professor |            | 06/08/2007 | Regular | Yes |  | No  |
| Dr. Leena Sawaikar              | AUZPS1680F | M.Pharm and Ph.D | 31/10/2020 | Pharmaceutical Chemistry | 05 | 00 | 00 | Assistant Professor |            | 16/07/2007 | Regular | Yes |  | No  |
| Dr. Swati Keny                  | BKBPS5081B | M.Pharm and Ph.D | 05/01/2021 | Pharmaceutics            | 04 | 00 | 00 | Assistant Professor |            | 14/07/2008 | Regular | Yes |  | No  |
| Mr. Pankaj Gajare               | AHGPG4070P | M.Pharm          | 08/06/2009 | Pharmaceutics            | 14 | 00 | 00 | Assistant Professor |            | 20/04/2010 | Regular | Yes |  | No  |
| Dr. Mangirish Deshpande         | ARCPD7717N | M.Pharm and Ph.D | 28/12/2020 | Pharmacology             | 09 | 00 | 00 | Assistant Professor |            | 13/07/2010 | Regular | Yes |  | No  |
| Dr. Pearl Dighe                 | BICPP6665F | M.Pharm and Ph.D | 19/11/2020 | Pharmaceutics            | 06 | 00 | 00 | Assistant Professor |            | 14/09/2010 | Regular | Yes |  | No  |
| Ms. Soniya Phadte               | AWUPN0492K | M.Pharm          | 18/09/2013 | Pharmaceutical Chemistry | 06 | 00 | 00 | Assistant Professor |            | 26/08/2014 | Regular | Yes |  | No  |
| Ms. Gauri Pai Angle             | AWZPP9558K | M.Pharm          | 12/10/2012 | Pharmacognosy            | 06 | 00 | 00 | Assistant Professor |            | 22/07/2013 | Regular | Yes |  | No  |
| Mr. Sandesh Narayan Somnache    | FYUPS9882M | M.Pharm          | 24/07/2013 | Pharmaceutics            | 12 | 00 | 00 | Assistant Professor |            | 09/11/2015 | Regular | Yes |  | No  |
| Ms. Arti S. Pednekar            | CZNPD7456B | M.Pharm          | 16/06/2015 | Pharmaceutics            | 04 | 00 | 00 | Assistant Professor |            | 02/01/2016 | Regular | Yes |  | No  |
| Mrs. Saumya Vernekar            | AHAPL4534B | M.Pharm          | 20/08/2014 | Pharmaceutical Chemistry | 02 | 00 | 00 | Assistant Professor |            | 17/08/2015 | Regular | Yes |  | No  |
| Miss Chaitali Prabhu Tendulkar  | CVDPP9871N | M.Pharm          | 28/08/2015 | Pharmaceutical Chemistry | 01 | 00 | 00 | Assistant Professor |            | 16/08/2018 | Regular | Yes |  | No  |
| Miss Kamakshi R.S. Kunkolienker | GGNPK4043Q | M.Pharm          | 20/09/2018 | Pharmaceutics            | 01 | 00 | 00 | Assistant Professor |            | 24/10/2018 | Regular | Yes |  | No  |
| Dr Nilambari Gurav              | AIOPD3429N | M.Pharm and Ph.D | 16/05/2019 | Pharmacognosy            | 13 | 00 | 00 | Assistant Professor |            | 16/09/2019 | Regular | Yes |  | No  |
| Miss Prachita Gauns Desai       | BROPG8577L | M.Pharm          | 02/10/2020 | Pharmaceutical Chemistry | 01 | 00 | 00 | Assistant Professor |            | 03/01/2022 | Regular | Yes |  | No  |
| Dr. Shilpa P. Bhilegaonkar      | APUPB9612G | M.Pharm and Ph.D | 09/08/2011 | Pharmaceutics            | 21 | 00 | 00 | Associate Professor | 08/08/2016 | 03/08/2010 | Regular | Yes |  | No  |

|                    |            |                  |            |                          |    |    |    |                     |            |            |         |     |            |    |
|--------------------|------------|------------------|------------|--------------------------|----|----|----|---------------------|------------|------------|---------|-----|------------|----|
| Dr.Ajeet M.Godbole | AHQPG9410K | M.Pharm and Ph.D | 21/06/2011 | Pharmaceutics            | 14 | 00 | 00 | Professor           | 06/11/2014 | 06/11/2014 | Regular | Yes |            | No |
| Ms. Ashwini Jadhav | AQEPJ0872F | M.Pharm          | 28/08/2015 | Pharmaceutical Chemistry | 00 | 00 | 00 | Assistant Professor |            | 17/09/2019 | Regular | Yes |            | No |
| Mr. B.S.Biradar    | BDJPB6003R | M.Pharm          | 31/03/2011 | Pharmacology             | 13 | 00 | 00 | Assistant Professor |            | 16/01/2013 | Regular | Yes |            | No |
| Ms Saavee Kamat    | BVTPR2191C | M.Pharm          | 20/08/2014 | Pharmaceutical Chemistry | 00 | 00 | 00 | Assistant Professor |            | 20/08/2018 | Regular | No  | 27/05/2021 | No |

**5.1 Student-Faculty Ratio (SFR) (20)**

Total Marks 12.00

Institute Marks : 12

**UG**No. of UG Programs in the Department 

| Bachelor of Pharmacy |                 |  |                                  |  |                                  |  |
|----------------------|-----------------|--|----------------------------------|--|----------------------------------|--|
| Year of Study        | CAY             |  | CAYm1                            |  | CAYm2                            |  |
|                      | (2021-22)       |  | (2020-21)                        |  | (2019-20)                        |  |
|                      | 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  | 75                               | 0  |
| 2nd Year             | 100             | 11   | 75                               | 7  | 60                               | 5  |
| 3rd Year             | 75              | 7  | 60                               | 5  | 60                               | 7  |
| 4th Year             | 60              | 5  | 60                               | 7  | 60                               | 6  |
| <b>Sub-Total</b>     | <b>335</b>      | <b>23</b>                                      | <b>295</b>                       | <b>19</b>                                      | <b>280</b>                       | <b>18</b>                                      |
| <b>Total</b>         | <b>358</b>      |  | <b>314</b>                       |  | <b>298</b>                       |  |
| Grand Total          |                 | <input type="text" value="358"/>               | <input type="text" value="314"/> |  | <input type="text" value="298"/> |  |

**PG**No. of PG Programs in the Department

**Master of Pharmacy ( Pharmaceutics)**

| Year of Study | CAY(2021-22)    | CAYm1(2020-21)  | CAYm2 (2019-20) |
|---------------|-----------------|-----------------|-----------------|
|               | Sanction Intake | Sanction Intake | Sanction Intake |
| 1st Year      | 18              | 18              | 18              |
| 2nd Year      | 18              | 18              | 18              |
| <b>Total</b>  | <b>36</b>       | <b>36</b>       | <b>36</b>       |

**Master of Pharmacy (Pharmaceutical Chemistry)**

| Year of Study | CAY(2021-22)    | CAYm1(2020-21)  | CAYm2 (2019-20) |
|---------------|-----------------|-----------------|-----------------|
|               | Sanction Intake | Sanction Intake | Sanction Intake |
| 1st Year      | 18              | 18              | 18              |
| 2nd Year      | 18              | 18              | 18              |
| <b>Total</b>  | <b>36</b>       | <b>36</b>       | <b>36</b>       |

Grand Total

72

72

72

**SFR**

No. of UG Programs in the Department 1

No. of PG Programs in the Department 2

| Description   | CAY(2021-22)                 | CAYm1 (2020-21)  | CAYm2 (2019-20)  |
|---|------------------------------|------------------|------------------|
| Total No. of Students in the Department(S)  | 430 students                 | 386 students     | 345 students     |
| No. of Faculty in the Department(F)   | 20 F1                        | 21 F2            | 21 F3            |
| Student Faculty Ratio(SFR)  | 21.50 SFR1=S1/F1             | 16.43 SFR2=S2/F2 | 18.38 SFR3=S3/F3 |
| Average SFR   | 18.77 SFR=(SFR1+SFR2+SFR3)/3 |                  |                  |
| <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/Adjust 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:**

|                | <b>Total number of regular faculty in the department</b> | <b>Total number of contractual faculty in the department</b> |
|----------------|--|--|
| CAY(2021-22)   | 20   | 0  |
| CAYm1(2020-21) | 21   | 0  |
| CAYm2(2019-20) | 21   | 0  |

Average SFR for three assessment years : 18.77

Assessment SFR : 12

**5.2 Faculty Cadre Proportion (20)**

Total Marks 12.00

Institute Marks : 12.00

| Year            | Professors  |           | Associate Professors |           | Assistant Professors |           |
|-----------------|-------------|-----------|----------------------|-----------|----------------------|-----------|
|                 | Required F1 | Available | Required F2          | Available | Required F3          | Available |
| CAY(2021-22)    | 3.00        | 2.00      | 6.00                 | 2.00      | 19.00                | 16.00     |
| CAYm1(2020-21)  | 2.00        | 2.00      | 5.00                 | 2.00      | 17.00                | 17.00     |
| CAYm2(2019-20)  | 2.00        | 2.00      | 5.00                 | 2.00      | 15.00                | 17.00     |
| Average Numbers | 2.33        | 2.00      | 5.33                 | 2.00      | 17.00                | 16.67     |

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) \* 0.6] + [(AF3 / RF3) \* 0.4] ] \* 10 : 12.00

**5.3 Faculty Qualification (20)**

Total Marks 11.49

Institute Marks : 11.49

|                | X  | Y  | F     | $FQ = 2.0 \times [(10X + 6Y) / F]$ |
|----------------|----|----|-------|------------------------------------|
| 2021-22(CAY)   | 10 | 10 | 28.00 | 11.43                              |
| 2020-21(CAYm1) | 9  | 11 | 25.00 | 12.48                              |
| 2019-20(CAYm2) | 5  | 11 | 22.00 | 10.55                              |

Average Assessment : 11.49

**5.4 Faculty Retention (20)**

Total Marks 20.00

Institute Marks : 20.00

| Description            | 2020-21 | 2021-22 |
|------------------------|---------|---------|
| No of Faculty Retained | 21      | 20      |
| Total No of Faculty    | 21      | 21      |
| % of Faculty Retained  | 100     | 95      |

Average : 98.00

Assessment Marks : 20.00

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

Total Marks 15.00

Institute Marks : 15.00

**ICT Teaching**

- Faculty members use multimedia elements such as power point presentations to deliver lectures along with traditional methods of chalk board teaching.
- Use of audio visual techniques to teach concepts in subjects of anatomy physiology, pharmaceutics has been implemented.
- Demonstration using models, charts, and innovative visual aids, simulated models and software are being practiced.
- Google classrooms for every class for sharing of notices, assignments, and notes were introduced, thereby making communication very prompt.
- Students are motivated to refer exhaustive literature by using e-books and e-journals.
- Software's like Chemdraw and Molegro virtual Dockers are used to elucidate structures in Chemistry using CADD.
- Software like Experimental Pharmacology series (Ex-pharm series) and Digi Frog are used for simulated experiments in pharmacology.
- The computer facility is made available to the faculty members as well as students for computer aided teaching and learning process.
- Our digital library is equipped with many e-journals, e-books, and made available to the students to help them develop the habit of self-learning and learning beyond syllabus. DELNET facility is provided to students for online searching of reputed national and international research articles.

**Pilot plant laboratory/Central Instrumentation laboratory/Museum**

- A lab scale pilot laboratory has been set up for understanding industrial processes like liquid, solid and semisolid manufacture; equipped with tablet compression, coating pan, lyophilizer and other with laboratory scale machines. Demonstrations of equipment's, as well as project work of students is carried out using these facilities.
- Instruments for analysing various dosage forms like dissolution testing, freeze drying techniques etc. are being demonstrated to the students for practical understanding.
- The central instrumentation laboratory is equipped with instruments for analysis like UV, IR and HPLC.
- Mini models of instruments and various other information regarding the history and development in the field of pharmacy is displayed in the museum to assist students in gaining better understanding of the concepts in the syllabus.

**Seminars/Assignments**

- Along with the formative examinations, teachers assign assignments to the students to evaluate their subject understanding in relation to theoretical and practical aspects.

**Industrial Training**

- One month practical training for the students of Third Year B.Pharm in various industries is conducted to get practical knowledge of the current on-going practices in the industry.

**Guest Lectures**

- Guest lectures by experts from respective fields along with industrial visits are arranged for students and faculty members to remain updated with the current status of the profession.

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

Total Marks 15.00

Institute Marks : 15.00

| Name of the faculty | Max 5 Per Faculty |         |         |
|---------------------|-------------------|---------|---------|
|                     | 2021-22           | 2020-21 | 2019-20 |
| Dr. S.N Mambledesai | 0.00              | 0.00    | 0.00    |
| Dr. Ajeet Godbole   | 3.00              | 5.00    | 3.00    |

|   |       |       |       |
|---|-------|-------|-------|
| Dr Celina Nazareth  | 3.00  | 5.00  | 5.00  |
| Dr. Suwarna Bobde   | 5.00  | 5.00  | 5.00  |
| Dr. Leena Sawaikar  | 5.00  | 5.00  | 5.00  |
| Dr. Swati Keny  | 5.00  | 5.00  | 3.00  |
| Dr. Shilpa Bhilegaonkar   | 3.00  | 3.00  | 5.00  |
| Mr Pankaj Gajare  | 0.00  | 3.00  | 5.00  |
| Dr. Mangirish Deshpande   | 5.00  | 5.00  | 5.00  |
| Dr. Pearl Dighe   | 5.00  | 5.00  | 5.00  |
| Mr B.S. Biradar   | 0.00  | 0.00  | 5.00  |
| Ms. Gauri Pai Angle   | 5.00  | 5.00  | 5.00  |
| Mrs Soniya Phadte   | 5.00  | 5.00  | 5.00  |
| Mrs. Saumya Vernekar  | 5.00  | 5.00  | 5.00  |
| Mr Sandesh Somnache   | 5.00  | 5.00  | 5.00  |
| Ms Arti Pednekar  | 5.00  | 5.00  | 5.00  |
| Ms. Chaitali S.P Tendulkar  | 3.00  | 5.00  | 0.00  |
| Ms. Savee Kamat   | 0.00  | 0.00  | 0.00  |
| Dr Nilambari Gurav  | 3.00  | 5.00  | 0.00  |
| Ms. Ashwini Jadhav  | 3.00  | 5.00  | 0.00  |
| Ms. Kamakshi Kuncolienkar   | 3.00  | 3.00  | 0.00  |
| Ms.Prachita Gauns Desai   | 0.00  | 0.00  | 0.00  |
| Sum   | 71.00 | 84.00 | 71.00 |
| RF = Number of Faculty required to comply with 15:1 Student Faculty Ratioas per 5.1 | 28.67 | 25.73 | 23.00 |
| Assessment [3*(Sum / 0.5RF)]  | 14.86 | 19.59 | 18.52 |

Average assessment over 3 years: 17.66

**5.7 Research and Development (40)**

Total Marks 20.00

**5.7.1 Academic Research (10)**

Institute Marks : 10.00

Research papers and books/book chapters published by the faculty members in the assessment years [6]**Publications by faculty members in the assessment years**

| Sr. no | Name of faculty            | Total number of publications in assessment years (2019-2022) | Total Citations till date |
|--------|----------------------------|--|---------------------------|
| 1      | Dr. S.N Mamledesai         | 11   | 433                       |
| 2      | Dr. Ajeet Godbole          | 01   | 357                       |
| 3      | Dr Celina Nazareth         | 07   | 00                        |
| 4      | Dr. Suwarna Bobde          | 02   | 03                        |
| 5      | Dr. Leena Sawaikar         | 02   | 03                        |
| 6      | Dr. Swati Keny             | 02   | 02                        |
| 7      | Dr. Silpa Bhilegaonkar     | 01   | 94                        |
| 8      | Mr. Pankaj Gajare          | 01   | 127                       |
| 9      | Dr. Mangirish Deshpande    | 02   | 07                        |
| 10     | Dr. Pearl Dighe            | 03   | 04                        |
| 11     | Mr B.S. Biradar            | 05   |                           |
| 12     | Ms. Gauri Pai Angle        | 02   | 14                        |
| 13     | Mrs. Soniya Phadte         | 04   | 13                        |
| 14     | Mrs. Saumya Vernekar       | 02   | --                        |
| 15     | Mr. Sandesh Somnache       | 01   | 19                        |
| 16     | Ms. Arti Pednekar          | 01   | 21                        |
| 17     | Ms. Chaitali S.P Tendulkar | 00   | --                        |
| 18     | Ms. Savee Kamat            | 00   | --                        |
| 19     | Dr. Nilambari Gurav        | 13   | 570                       |
| 20     | Ms. Ashwini Jadhav         | 00   | --                        |
| 21     | Ms. Kamakshi Kuncolienkar  | 00   | --                        |
| 22     | Ms.Prachita Gauns Desai    | 01   | --                        |
|        | <b>Sum</b>                 | <b>61</b>  | --                        |

**Book / Book chapters published by the Faculty members**

| Title of Book/Book Chapter | Authors | Year Published | ISBN |
|----------------------------|---------|----------------|------|
|                            |         |                |      |

|   |  |      |                   |
|---|--|------|-------------------|
| Book<br>A systematic Approach to Practical Pharmaceutics  | Prof Ajeet M. Godbole<br>Mr Sandesh Somnache<br>Ms Arti Pednekar<br>Mr Pankaj Gajare | 2019 | 81-8416-076-3     |
| Book<br>Ayurvedic Remedies for the diseases of microbial origin   | Dr. Shilpa Bhilegaonkar  | 2022 | 978-81-956220-3-0 |
| Book Chapter:<br>Polymersomes for targeting to brain tumors in the book Nanocarriers for Drug-Targeting Brain Tumors                              | Dr. Suwarna Bobde  | 2022 | 978-0-323-90773-6 |
| Book Chapter:<br>Biomedical applications of nanocarriers in brain tumor targeting tumors in the book Nanocarriers for Drug-Targeting Brain Tumors | Dr. Pearl Digue  | 2022 | 978-0-323-90773-6 |

**Patents published/granted by Faculty members**

| Sr. No | Patent   | Author                  | Date of Grant |
|--------|--|-------------------------|---------------|
| 1      | Indian Patent<br>Composition and formulation of coating material Comprising Elusine Corcana for pharmaceutical use | Dr. Shilpa Bhilegaonkar | 20/11/2020    |
| 2      | Indian Patent<br>Cefixime liquid formulation and preparation method thereof  | Dr. Shilpa Bhilegaonkar | 30/12/2020    |

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

**Faculty members awarded with Ph.D Degree in the assessment years**

| Sr. No. | Faculty name       | Year of Award | Title of the thesis  | University             |
|---------|--------------------|---------------|--|------------------------|
| 1.      | Dr. Leena Sawaikar | November 2020 | Development and validation of stability indicating HPLC method for the estimation of some combination of antidiabetic and antihypertensive drugs in their dosage form. | R K university, Gujrat |
| 2.      | Dr. Suwarna Bobde  | November 2020 | Studies On Design, Development And Evaluation of Mouth Dissolving Film Of Anti Emetic Drug   | R K university, Gujrat |
| 3.      | Dr. Pearl Digue    | November 2020 | Design And Evaluation of Bilayer Tablets of Fixed Dose Combinations for Management of Hypertension   | R K university, Gujrat |

|    |                        |               |   |                        |
|----|------------------------|---------------|---|------------------------|
| 4. | Dr.Mangirish Deshpande | December 2020 | Phytopharmacological investigation of <i>Phyllanthus urinaria</i> and <i>Adiantum lunulatum</i> in peptic ulcer disease | R K university, Gujrat |
| 5. | Dr. Swati Keny         | January 2021  | Formulation and Development of Occuserts for Quinolone antibiotic with corticosteroids                                  | R K university, Gujrat |

**Ph.D. Guided /Ph.D. Awarded/On-going Ph.D Candidates during the assessment period while working in the institute**

| Sr. No. | Faculty name          | Number of on-going candidates | Details   |
|---------|-----------------------|-------------------------------|---|
| 1.      | Dr. S. N. Mamle Desai | 02 candidates as Co-guide     | 1. Ms. Soniya Phadte (pursuing from SRM, University, Chennai Tamil Nadu)<br>2. Ms. Arti Pednekar (pursuing from SRM, University, Chennai Tamil Nadu ) |

**5.7.2 Sponsored Research (10)**

Institute Marks : 0

**2021-22**

| Project Title | Duration | Funding Agency | Amount (in Rupees)    |
|---------------|----------|----------------|-----------------------|
| -             | -        | -              | 0.00                  |
|               |          |                | Total Amount(X): 0.00 |

**2020-21**

| Project Title  | Duration | Funding Agency  | Amount (in Rupees)         |
|--|----------|---|----------------------------|
| Development and optimisation of release modulated novel oral liquid dosage form of enzyme supplements for geriatrics | 1 year   | Department of Science and Technology; Waste Management, Government of Goa under "Scheme for Researchers in the field of Science and Technology and for Projects of Students as part of academic curriculum. | 168000.00                  |
|  |          |   | Total Amount(Y): 168000.00 |

**2019-20**

| Project Title | Duration | Funding Agency | Amount (in Rupees)    |
|---------------|----------|----------------|-----------------------|
| -             | -        | -              | 0.00                  |
|               |          |                | Total Amount(Z): 0.00 |

Cumulative Amount(X + Y + Z) = 168000.00

**5.7.3 Consultancy (from Industry) (10)**

Institute Marks : 0

2021-22

| Project Title                          | Duration | Funding Agency       | Amount (in Rupees)         |
|--|----------|----------------------|----------------------------|
| Memory Enhancing Activity              | 1 year   | Amsar Ltd            | 38000.00                   |
| Development of nanosponge formulations | 1 year   | Urjayu Life Sciences | 50000.00                   |
| Development of herbal spray            | 1 year   | Urjayu Life Sciences | 50000.00                   |
| Development of liposomal formulation   | 1 year   | Urjayu Life Sciences | 50000.00                   |
|  |          |                      | Total Amount(X): 188000.00 |

2020-21

| Project Title        | Duration | Funding Agency | Amount (in Rupees)        |
|----------------------|----------|----------------|---------------------------|
| Skin cancer activity | 1 year   | Amsar Ltd.     | 60000.00                  |
|                      |          |                | Total Amount(Y): 60000.00 |

2019-20

| Project Title      | Duration | Funding Agency   | Amount (in Rupees)        |
|--------------------|----------|------------------|---------------------------|
| Scientific writing | 3 year   | Zim Laboratories | 10000.00                  |
|                    |          |                  | Total Amount(Z): 10000.00 |

Cumulative Amount(X + Y + Z) = 258000.00

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

Institute Marks : 5.00

| Sr. No | Year | Name of the Faculty     | Title of project                                    | Consulting/ Sponsoring agency |
|--------|------|-------------------------|---|-------------------------------|
| 01     | 2021 | Dr. Shilpa Bhilegaonkar | Development and scale up of Polyherbal formulations | Amsar Ltd.                    |

**5.7.5 Development activities (5)**

Institute Marks : 5.00

**Product Development**

Our institute has collaborated through a MoU with industries namely VERGO Pharma Ltd. and AMSAR Pvt. Ltd. to promote research activities for faculty members and students.

In association with Amsar Ltd. and Urjayu Life Sciences, the institute has developed several formulations; some of which have been listed below:

Development of nanospunge formulations

Development of herbal spray

Development of liposomal formulations

**Research laboratories**

- **Central Instrumental Facility**

The institute has a central instrumentation facility meant for faculty and students. This laboratory is equipped with high- performance liquid chromatograph (HPLC), UV Spectrophotometer, Fourier Transform Infra-Red Spectrometer (FTIR), etc.

- **Animal House**

The institute has an animal house facility that abides by CPCSEA guidelines and is regulated by IAEC – No. 1659/PO/Re/S/12/CPCSEA dated 31/10/2012, inspected and renewed from 17/02/2021 to 16/02/2026. The animal house is completely air-conditioned and hosts laboratory animals like rat and mice. Various pharmacological activities are carried out in the animal house.

- **Pilot Plant**

The pilot plant has been designed to acquaint the students with a practical experience of the Pharma industries. The Pilot plant is divided into solid, liquid and semisolid manufacturing areas equipped with machinery like tablet compression machine, coating machine, freeze drier, all-purpose-equipment, etc. It also has a testing area equipped with UV spectrophotometer, dissolution apparatus and other instruments.

- **Department Level Research Lab**

The post graduate departments of Pharmaceutics and Pharmaceutical Chemistry have specialized research laboratories for PG students, equipped with sophisticated equipment like dissolution apparatus, Sieve shaker, pH meter, cold centrifuge, autoclave, friability apparatus, tray drier, stability chamber, orbital Shaker, incubator, microscopes, etc.

**Instruction Materials**

The students are provided instructional materials through various sources. With the arrival of a covid era and a transition to an online education system, providing the right study material to students for understanding of concepts covered during online classroom teaching was the need of the hour. Digital notes in the form of e books, power point presentations are provided to students. The students are provided with printed journals which are used by them as easy instruction materials. The students are provided with laboratory manuals to prepare themselves for the experiments in advance.

**Working models/charts/monograms**

Informative charts prepared by the students under the guidance of teaching staff members 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 such as health camps, blood donation programs etc.

Mini models of instruments prepared by the students and various other information regarding the history and development in the field of pharmacy is displayed in the museum to assist students in the understanding and remembering the concepts in the syllabus.

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

Total Marks 20.00

Institute Marks : 20.00

Performance based Self-Appraisal is essential for evaluation and motivational progress. The faculty is assessed annually by the Self-Appraisal method and a Student Feedback System. The analysis is conducted based on results, number of seminars, conferences and QIPs attended, contribution to the college and community, books, papers and patents published, and student feedback which is confidentially done and duly communicated at personal level by the Principal to the teacher. Faculty participation in continuing education programs, various national and international conferences, sponsored registration and workshops is encouraged. This appraisal system has given way for further enhancement and up-gradation of their skills and knowledge.

The faculty members fill and submit an appraisal form every academic year end as per the proforma given below



#### SELF-APPRAISAL OF TEACHING FACULTY

(The details are required for academic year 2020-2021)

(Please attach separate sheets if necessary; include more rows in the tables as per the need)

#### 1. PERSONAL INFORMATION

|                           |
|---------------------------|
| 1. Name                   |
| 2. Designation            |
| 3. Qualification          |
| 4. Area of Specialization |
| 5. Working Experience     |

#### 2. CURRICULUM ACTIVITIES

##### A. DETAILS OF LECTURES TAKEN AND PRACTICALS CONDUCTED FOR THE ACADEMIC YEAR 2020-2021

| Sr. No               | Programme | Semester | Subject/Course | Total No of Lectures | Total No of Conducted | Total No of Practical Allotted | Total No of Practical Conducted |
|----------------------|-----------|----------|----------------|----------------------|-----------------------|--------------------------------|---------------------------------|
|                      |           |          |                | Allotted             | Conducted             | Allotted                       | Conducted                       |
| <b>Odd Semester</b>  |           |          |                |                      |                       |                                |                                 |
| 1                    |           |          |                |                      |                       |                                |                                 |
| <b>Even Semester</b> |           |          |                |                      |                       |                                |                                 |
| 1                    |           |          |                |                      |                       |                                |                                 |

#### 3. CURRICULUM ACTIVITIES

##### B. DETAILS OF PARTICIPATION IN THE EXAMINATION DUTIES IN THE ACADEMIC YEAR 2020-2021

| Number of Supervision in University Examination |  |  |  |
|---|--|--|--|
|   |  |  |  |
| Number of Supervision in Internal Examination   |  |  |  |
|   |  |  |  |
| Expert Duty in University Practical Examination |  |  |  |
|   |  |  |  |
| Examinership in University Examination          |  |  |  |
|   |  |  |  |

##### C. DETAILS OF WORK CONDUCTED AS THE PART OF THE COMMITTEES IN THE ACADEMIC YEAR 2020-2021

| Sr.No | Name of the Committee | Responsibilities | Remarks |
|-------|-----------------------|------------------|---------|
| 1     |                       |                  |         |

(Please prepare the table for your committee or enter the information in this section based on your convenience)

##### D. DETAILS OF CO-ORDINATION IN DIFFERENT EVENTS IN THE ACADEMIC 2020-2021

| Sr.No. | Details of Events |
|--------|-------------------|
| 1      |                   |

#### 4. EXTRACURRICULUM ACTIVITIES

##### A. DETAILS OF ADDITIONAL TRAINING / FACULTY IMPROVEMENT / FURTHER STUDY UNDERTAKEN IN THE ACADEMIC YEAR 2020-2021

| Period | Name of Programme | Organized by |
|--------|-------------------|--------------|
| From   | To                |              |
|        |                   |              |

#### 5. RESEARCH WORK

##### A. DETAILS OF PARTICIPATION IN SEMINARS/CONFERENCES IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Date | Name of the Seminar/conference | Organized by |
|---------|------|--------------------------------|--------------|
| From    | To   |                                |              |
|         |      |                                |              |

##### B. DETAILS OF RESEARCH ARTICLES AND REVIEW ARTICLES PUBLISHED IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Title of the article | Details of the Journal |
|---------|----------------------|------------------------|
|         |                      |                        |

##### C. DETAILS OF BOOKS PUBLISHED IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Title of the Book | Name of the Publisher | Date of publication | ISSN/ISBN No. of Book |
|---------|-------------------|-----------------------|---------------------|-----------------------|
|         |                   |                       |                     |                       |

#### D. DETAILS OF CHAPTERS PUBLISHED IN BOOKS IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Title of the Book | Title of the Chapter | Name of the Publisher | Date of publication | ISSN/ISBN No. of Book |
|---------|-------------------|----------------------|-----------------------|---------------------|-----------------------|
|         |                   |                      |                       |                     |                       |

#### 6. OTHER ACHIEVEMENTS

##### A. DETAILS OF AWARDS RECEIVED IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Title of the Award | Date of receiving |
|---------|--------------------|-------------------|
|         |                    |                   |

##### B. DETAILS OF ADDITIONAL RECOGNITIONS RECEIVED IN THE ACADEMIC YEAR 2020-2021

| Sr. No. | Title of the Recognition | Date of receiving |
|---------|--------------------------|-------------------|
|         |                          |                   |

##### C. ANY ADDITIONAL DETAILS THE TEACHER WISH TO ADD IN THE ACADEMIC YEAR 2020-2021

|    |
|----|
| 1. |
|----|

#### 7. SWOT ANALYSIS

|                   |   |
|-------------------|---|
| S (Strengths)     | - |
| W (Weaknesses)    |   |
| O (Opportunities) |   |
| T (Threats)       |   |

Name and Signature of the Teacher

Faculty members who have accomplished Ph.D. are provided with additional increments and are mentioned in Table below and proforma for the same provided below.

**Faculty receiving additional Ph.D. increments in the assessment years**

| Sr. no | Faculty Name            | Year of award of Ph.D |
|--------|-------------------------|-----------------------|
| 1      | Dr. Leena Sawaikar      | 2020                  |
| 2      | Dr. Suwarna Bobde       | 2020                  |
| 3      | Dr. Pearl Dighe         | 2020                  |
| 4      | Dr. Mangirish Deshpande | 2020                  |
| 5      | Dr. Swati Keny          | 2021                  |

**Proforma for Faculty receiving additional Ph.D. increments in the assessment years**

**SA-19 (viii)** **Incentives for Ph.D/ M. Phil and other higher qualification to take effect from 01/09/2008:**

- (i) Five non-compounded advance increments shall be admissible at the entry level of recruitment as Assistant Professor to persons possessing the degree of Ph.D. awarded in the relevant discipline by a University following the process of admission, registration, coursework and external evaluation as prescribed by the UGC.
- (ii) M. Phil degree holders at the time of recruitment to the post of Assistant Professor shall be entitled to two non-compounded advance increments.
- (iii) Those possessing Post Graduate degree in a professional course such as LL.M/M. Tech / M. Arch./ M.E./M.V.Sc./ M.D., recognized by the relevant Statutory Body/Council, shall also be entitled to two non-compounded advance increments at the entry level.
- (iv) (a) Teachers who complete their Ph.D. degree while in service shall be entitled to three non-compounded increments if such Ph.D. is in a relevant discipline and has been awarded by a University complying with the process prescribed by the UGC

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for enrolment, such as course-work and evaluation.

- (iv) (b) However, teachers in service who have been awarded Ph.D. at the time of coming into force of these regulations, or having been enrolled for Ph.D. have already undergone course-work, if any, as well as evaluation, and only notification in regard to the award of Ph.D. is awaited, shall also be entitled to the award of three non-compounded increments even if the University awarding such Ph.D. has not yet been notified by the UGC as having complied with the process prescribed by the Commission.

**5.9 Visiting/Adjunct Faculty (5)**

Total Marks 5.00

Institute Marks : 5.00

**List of visiting faculty in assessment years**

| Name of Faculty        | Specialization                    | Designation  |
|------------------------|-----------------------------------|--|
| Mr. Rajendra Naik      | M.Pharm. Pharmaceutical Chemistry | Ex Deputy Director, FDA - Goa                        |
| Mr. S. S. Revankar     | B.E.                              | Ex. Lecturer, Government Polytechnic College, Panaji |
| Miss. Chaitanya Sawkar | M.Sc. Mathematics                 | Lecturer, PES College of Arts and Science            |

**Assessment year 2019-20 interactions by visiting faculty**

| Class              | Semester | Subject  | Name of Visiting Faculty | No. of Interactions (h) |
|--------------------|----------|--|--------------------------|-------------------------|
| Third Year B.Pharm | V        | Pharmaceutics V (Quality Assurance and regulatory affairs) | Mr. Rajendra Naik        | 23                      |
| First Year M.Pharm | I        | Regulatory affairs   | Mr. Rajendra Naik        | 20                      |
| Third Year B.Pharm | VI       | Pharmaceutical Jurisprudence                               | Mr. Rajendra Naik        | 23                      |
| Third Year B.Pharm | V        | Pharmaceutical Engineering I                               | Mr. S S Revankar         | 45                      |
| Third Year B.Pharm | VI       | Pharmaceutical Engineering II                              | Mr. S S Revankar         | 45                      |
|                    |          |  | Total                    | <b>156</b>              |

**Assessment year 2020-21 interactions by visiting faculty**

| Class              | Semester | Subject                          | Name of Visiting Faculty | No. of Interactions |
|--------------------|----------|----------------------------------|--------------------------|---------------------|
| Third Year B.Pharm | V        | Pharmaceutical Jurisprudence     | Mr. Rajendra Naik        | 25                  |
| First Year M.Pharm | I        | Regulatory affairs               | Mr. Rajendra Naik        | 20                  |
| Third Year B.Pharm | VI       | Pharmaceutical Quality Assurance | Mr. Rajendra Naik        | 25                  |

|  |  |  |              |           |
|--|--|--|--------------|-----------|
|  |  |  | <b>Total</b> | <b>70</b> |
|--|--|--|--------------|-----------|

**Assessment year 2021-22 interactions by visiting faculty**

| <b>Class</b>       | <b>Semester</b> | <b>Subject</b>                         | <b>Name of Visiting Faculty</b> | <b>No. of Interactions</b> |
|--------------------|-----------------|--|---------------------------------|----------------------------|
| Third Year B.Pharm | V               | Pharmaceutical Jurisprudence           | Mr. Rajendra Naik               | 23                         |
| First Year M.Pharm | I               | Regulatory affairs                     | Mr. Rajendra Naik               | 20                         |
| Third Year B.Pharm | VI              | Pharmaceutical Quality Assurance       | Mr. Rajendra Naik               | 23                         |
| Final Year .Pharm  | VIII            | Research methodology and Biostatistics | Miss. Chaitanya Sawkar          | 18                         |
|                    |                 |  | <b>Total</b>                    | <b>84</b>                  |

**6 FACILITIES (120)**

Total Marks 120.00

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

Total Marks 20.00

Institute Marks : 20.00

The college has adequate number of lecture rooms and tutorial rooms for conduct of theory classes and tutorials for students of B. Pharm. programme as per the requirements of statutory bodies ie PCI and AICTE.

| Statuatory bodies | No of Classrooms Required | No of Classrooms available | Area requirement in sq. mts                | Area available in sq mts.          |
|-------------------|---------------------------|----------------------------|--|------------------------------------|
| AICTE             | 04                        | 04                         | 66   | S20 and S21: 134<br>S3and S4: 103  |
| PCI               | 04                        | 04                         | 90 each (Desirable)<br>75 each (Essential) | S20 and S21: 134<br>S3 and S4: 103 |

- Class rooms are equipped with LCD facility, podium, uninterrupted power supply and internet facility along with traditional teaching tools such as blackboard, whiteboards, over head projectors etc.
- Separate auditorium having capacity of more than 300 peoples for seminars, guest lectures and workshops. Auditorium is air conditioned and is equipped with a sound system, projectors, internet facility. Two separate green rooms are attached with auditorium.

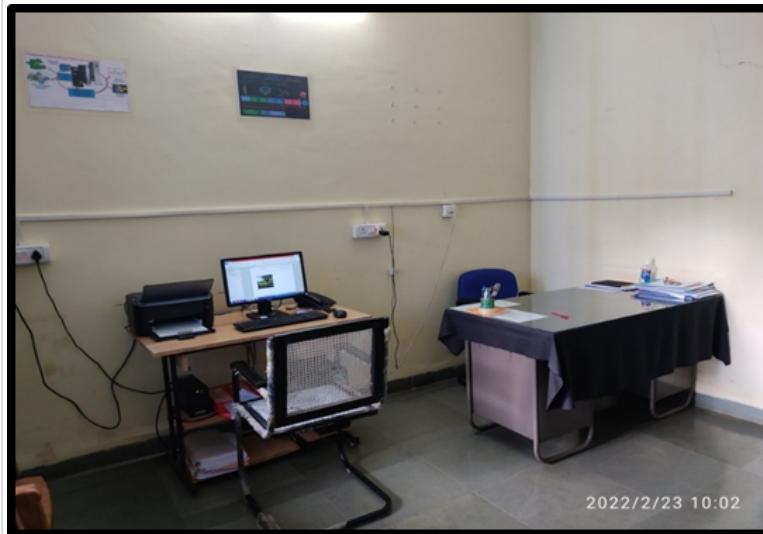
**6.2 Faculty rooms (10)**

Total Marks 10.00

College has

Well-furnished faculty rooms and cabins.

Provided internet facility to the Faculty members



### 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

Institute Marks : 60.00

The college has well equipped, ventilated, and sufficiently lighted laboratories having adequate safety facilities as per the requirements of statutory bodies. College laboratories are attached with Preparation Room and Faculty Cabins.

A separate computer laboratory with internet connection is available as a computing facility for the students of undergraduate and post graduate level.

| Sr. No. | Instrument/ Equipment                        | Make And Model  | SOP       | Log Book |
|---------|--|---|-----------|----------|
| 01      | Double Beam UV-Vis Spectrophotometer         | <ul style="list-style-type: none"> <li>• Shimadzu</li> <li>• UV 1800</li> </ul>       | CIR-01-19 | 01       |
| 02      | HPLC   | <ul style="list-style-type: none"> <li>• Cyberlab</li> <li>• LC-100</li> </ul>        | CIR-02-19 | 02       |
| 03      | Spectroflurometer                            | <ul style="list-style-type: none"> <li>• Elico</li> <li>• SL 174</li> </ul>           | CIR-03-19 | 03       |
| 04      | Fourier Transform Infrared Spectrophotometer | <ul style="list-style-type: none"> <li>• Shimadzu</li> <li>• IR Affinity-1</li> </ul> | CIR-04-19 | 04       |
| 05      | Conductivity Meter                           | <ul style="list-style-type: none"> <li>• Elico</li> <li>• CM-180</li> </ul>           | CIR-05-19 | common   |
| 06      | Conductivity Meter                           | <ul style="list-style-type: none"> <li>• Equiptronics</li> <li>• EQ 660A</li> </ul>   | CIR-06-19 | common   |
| 07      | pH Meter                                     | <ul style="list-style-type: none"> <li>• Elico</li> <li>• LI 120</li> </ul>           | CIR-07-19 | common   |

|    |              |  |           |        |
|----|--------------|--|-----------|--------|
| 08 | Karl Fischer | <ul style="list-style-type: none"> <li>Analab Scientific</li> <li>Aquacal</li> </ul> | CIR-08-19 | common |
|----|--------------|--|-----------|--------|

## Central Instrument Room

| Sr. No. | Instrument/ Equipment        | Make and model   | SOP | Log book |
|---------|------------------------------|--|-----|----------|
| 1       | Double Pan balance           | Philips pan balance<br>Mach no:- 3013 Type:-6                              | 2.1 | Yes      |
| 2       | UV-Visible Spectrophotometer | Model:- UV-1800 240V<br>Shimadzu Corporation                               | 3.1 | Yes      |
| 3       | I.R. Moisture Balance        | Model:- RSMA -2<br>Rajdhani Scientific Instruments.co.                     | 3.2 | Yes      |
| 4       | pH meter                     | ELICO LI 120   | 3.3 | Yes      |
| 5       | Brookefield's Viscometer     | Model:-LVT<br>Serial Number 8494299<br>Brookfield Engineering Laboratories | 3.4 | Yes      |
| 6       | Tap density Apparatus        | Model:- TDA-2<br>Campbell Electronics                                      | 3.5 | Yes      |
| 7       | Hardness Tester              | Monsantos  | 3.6 | Yes      |

|    |                                 |   |      |           |
|----|---------------------------------|---|------|-----------|
| 8  | Vernier calliper                | Yamayo  | 3.7  | Yes       |
| 9  | Electrical balance              | BSA822<br>Sartorius   | 3.8  | Yes       |
| 10 | Friability Test Apparatus       | Meta-Lab Scientific Industries<br>Model:- MSI-46                                      | 3.9  | Yes       |
| 11 | Disintegration Test Apparatus   | DBK Industrments<br>Type:- 40TDA-O2   | 3.10 | Yes       |
| 12 | Dissolution apparatus           | DBK Industrments<br>Type:- 40DR7  | 3.11 | Yes       |
| 13 | Ball mill                       |   | 4.1  | Yes       |
| 14 | Capsule filling machine         |   | 4.2  | Yes       |
| 15 | Hot air oven                    | Pathak Electrical Works<br>CAT. NO:- 180BSS<br>SR. NO:-441                            | 4.3  | Yes       |
| 16 | All Purpose Equipment           | Orchid scientifcics<br>Model:- AP-01 plus   | 4.4  | Yes       |
| 17 | Sieve Shaker                    |   | 4.5  | Yes       |
| 18 | Tablet compression Machine      | Karnavati Enginnering Ltd<br>Rimek<br>Mini -II MT                                     | 4.6  | Yes       |
| 19 | Tablet Coating pan              |   | 4.7  | Yes       |
| 20 | Steam bath                      | Meta-Lab Scientific Industries<br>Model:- MSI-17B                                     | 5.1  | Yes       |
| 21 | Mechanical lab stirrer          | Bio-lab Instruments<br>Type:- BL231A  | 5.2  | Yes       |
| 22 | pH meter                        | ELICO LI 120  | 5.3  | Yes       |
| 23 | Magnetic Stirrer with hot plate |   | 5.4  | Yes       |
| 24 | Rotary Evaporator               | IKA<br>Model:- RV 10 D S96  | 5.5  | Yes       |
| 25 | Micro Centrifuge                | Eltek laboratory Euipment<br>SR.No. DGC 99<br>CAT NO.TC 450 D<br>MOTOR S.NO. DG M 178 | 5.6  | Yes       |
| 26 | Orbital Shaker                  |   | 5.7  | Available |

|    |                     |   |     |           |
|----|---------------------|---|-----|-----------|
| 27 | Christ Freeze Dryer | Labmate (Asia) Pvt Ltd<br>CHRIST<br>Alpha 1-2 LD Plus | 5.8 | Available |
|----|---------------------|---|-----|-----------|



Machine room

| Lab Description                 | Batch Size | Availability of manuals | Quality of Instrument | Safty Measures                    | Remarks            |
|---------------------------------|------------|-------------------------|-----------------------|-----------------------------------|--------------------|
| G3 Pharmaceutics I              | 30         | yes                     | State of the Art      | Fire extinguisher First aid kits  | As per requirement |
| G4 Pharmaceutics II             | 30         | yes                     | State of the Art      | Fire extinguisher First aid kits  | As per requirement |
| G10 Pharmaceutical Chemistry I  | 30         | yes                     | State of the Art      | Fume cupboard First aid kits Safe | As per requirement |
| G11 Pharmaceutical Chemistry II | 30         | yes                     | State of the Art      | Fume cupboard First aid kits Safe | As per requirement |
| G16 Animal House                | 15         | yes                     | State of the Art      | Fire extinguisher First aid kits  | As per requirement |

|   |    |     |                  |                                       |   |
|---|----|-----|------------------|---------------------------------------|---|
| G17 Pharmacology I                        | 30 | yes | State of the Art | Fire extinguisher First aid kits      | As per requirement                                    |
| G18 Pharmacology II                       | 30 | yes | State of the Art | Fire extinguisher First aid kits Glov | As per requirement                                    |
| F 1 Pharmacognosy                         | 30 | yes | State of the Art | Fire extinguisher First aid kits      | As per requirement                                    |
| F 2 M.Pharm<br>Pharmaceutical Chemistry   | 30 | yes | State of the Art | Fume cupboard First aid kits Safe     | As per requirement                                    |
| F 3 Pharmaceutical Analysis               | 30 | yes | State of the Art | First aid kits Safety goggles Fire e  | As per requiremen                                     |
| F4 Central Instrument Room                | 15 | yes | State of the Art | First aid kits Safety goggles Fire e  | As per requirement                                    |
| F9 M. Pharm Pharmaceutics<br>Lab II       | 15 | yes | State of the Art | First aid kits Fire extinguisher      | As per requirement                                    |
| F 10 Pharmaceutics Lab III                | 15 | yes | State of the Art | First aid kits Fire extinguisher      | As per requirement                                    |
| F 15 Machine Room                         | 15 | yes | State of the Art | First aid kits Fire extinguisher      | As per requirement                                    |
| F 16 Microbiology Lab                     | 30 | yes | State of the Art | First aid kits Fire extinguisher, nos | As per the requirement                                |
| F 17 M. Pharm Pharmaceutics<br>Lab I      | 15 | yes | State of the Art | First aid kits Fire extinguisher      | As per the requirement                                |
| F 18 M. Pharm<br>Pharmaceutical Chemistry | 15 | yes | State of the Art | First aid kits Fire extinguisher      | Fume cupboard First aid kits<br>Safety goggles Gloves |

## 6.4 Drug Museum (5)

Total Marks 5.00

Institute Marks : 5.00

A dedicated museum for drugs from natural origin has been constructed on first floor. A second museum is constructed at the second floor of institute for display of various pharmaceutical models and information on various aspects of pharmacy including history. Marketed drug formulations of solid, liquid and semisolid dosage forms, along with cosmeceuticals are also displayed in the museum. A trophy house /museum have been constructed on the ground floor for the display of curricular, extracurricular and co-curricular achievements of the students and staffs.

| Sr.No | Name              | Sr.No | Name                 |
|-------|-------------------|-------|----------------------|
| 1     | Ashwangandha Root | 1     | Eucalyptus Powder    |
| 2     | Benzoin           | 2     | Amla Powder          |
| 3     | Pale Catechu      | 3     | Pale Catechu Powder  |
| 4     | Gaduchi           | 4     | Gaduchi Powder       |
| 5     | Arjuna Bark       | 5     | Arjuna Bark Powder   |
| 6     | Black Catechu     | 6     | Black Catechu Powder |

| e-NBA |                         |
|-------|-------------------------|
| 7     | Rauwolfia root          |
| 8     | Cinnamon Bark           |
| 9     | Clove bud               |
| 10    | Brahmi leaves           |
| 11    | Ephedra                 |
| 12    | Acacia Root             |
| 13    | Kurchi Bark             |
| 14    | Liquorice Root          |
| 15    | Shankpushpi             |
| 16    | Quassia wood            |
| 17    | Kalmegh                 |
| 18    | Cascara Bark            |
| 19    | Nux- Vomica seed        |
| 20    | Kantakari               |
| 21    | Colophony crude         |
| 22    | Gokhru                  |
| 23    | Cinchona Bark           |
| 24    | Myrrh                   |
| 7     | Rauwolfia root Powder   |
| 8     | Cinnamon Bark Powder    |
| 9     | Ginger Powder           |
| 10    | Brahmi leaves Powder    |
| 11    | Ephedra Powder          |
| 12    | Acacia Powder           |
| 13    | Kuchi Bark Powder       |
| 14    | Liquorice Powder        |
| 15    | Shankpushpi Powder      |
| 16    | Quassia wood Powder     |
| 17    | Kalmegh Powder          |
| 18    | Cascara Bark Powder     |
| 19    | Nux- Vomica seed Powder |
| 20    | Capsicum Powder         |
| 21    | Starch Potato           |
| 22    | Lemon peel powder       |
| 23    | Cinchona Bark Powder    |
| 24    | Gum Tragacanth powder   |
| 25    | Datura leaves Powder    |
| 26    | Punarnava Powder        |
| 27    | Hibiscus Powder         |
| 28    | Rhubarb Powder          |

## Pharmacognosy museum

| Sr. No. | Title  |
|---------|--|
| I       | <b>CHARTS ON HISTORY OF MEDICINE/PHARMACY IN INDIA</b> |
| 1       | Ancient System of Medicine in India                    |
| 2       | Ancient System of Medicine over the world              |
| 3       | Ancient System of treatment                            |
| 4       | Development in pharmacy Profession                     |
| 5       | Contributors to Pharmacy profession                    |
| 6       | Indian Contributor to pharmacy Profession              |
| 7       | Development of major chemotherapeutic Agents           |
| 8       | Indian Pharmacopoeia                                   |
| II      | <b>AYURVEDIC FORMULATIONS</b>                          |

|            |                              |
|------------|------------------------------|
| 9          | Triphala Churna              |
| 10         | Arogyavardhini Vati          |
| 11         | Zandu Mugdha Rasa            |
| 12         | Tribhuvan keerti             |
| 13         | ZSaroop lepa                 |
| 14         | Deers Sat-isabgol            |
| 15         | Dukh Daba -lep               |
| 16         | Dabur chyawanprash           |
| 17         | Sandu punarnavasava          |
| 18         | Metromax - AM 50             |
| 19         | Aerolife Spacer              |
| 20         | kantha Sudharak vali         |
| <b>III</b> | <b>MEDICAL DEVICES</b>       |
| 21         | Duolin                       |
| 22         | Hansaplast                   |
| 23         | Accu-check 25 lancets        |
| 24         | Caldikind                    |
| 25         | Test Medium Flex Pen         |
| 26         | Diclofenac Transdermal Patch |
| 27         | asthalin inhaler             |
| 28         | duolin respules              |
| 29         | Evohaler                     |
| 30         | Dispensing balance           |
| 31         | BP Apparatus                 |
| <b>IV</b>  | <b>BABY COSMETICS</b>        |
| 32         | Baby top to toe wash         |
| 33         | Baby oil                     |
| 34         | Baby Shampoo                 |
| 35         | Baby Powder                  |
| 36         | Baby Cream                   |
| 37         | Baby Soap                    |
| 38         | Baby diaper rash Cream       |
| 39         | Lip balm                     |

|            |   |
|------------|---|
| 40         | Baby lotion                                   |
| <b>V</b>   | <b>COSMETICS</b>                              |
| 41         | Fair and lovely                               |
| 42         | Lipstick                                      |
| 43         | Anti Dandruff Shampoo                         |
| 44         | Astringent                                    |
| 45         | Vaseline                                      |
| 46         | Keo karpin oil                                |
| 47         | Ponds Talcum powder                           |
| 48         | Pond's cold cream                             |
| 49         | Nivea Man face wash                           |
| 50         | Old spice lotion                              |
| 51         | Fair and Handsome                             |
| 52         | Gillette foam                                 |
| 53         | Cologne talc                                  |
| 54         | Hide the Blemish                              |
| 55         | Compact                                       |
| 56         | Eyeliner                                      |
| 57         | Lipstick                                      |
| 58         | Bleach cream                                  |
| <b>VI</b>  | <b>MODELS</b>                                 |
| 59         | Gas Chromatography Model                      |
| 60         | UV Spectrophotometer Model                    |
| 61         | Analytical Balance                            |
| 62         | Stage of Column chromatography                |
| 63         | Differential Thermal Analysis                 |
| 64         | Radioimmunoassay (RIA)                        |
| <b>VII</b> | <b>SOME COMMON INSTRUMENTS AND APPARATUS</b>  |
| 65         | Mortar and Pestle                             |
| 66         | pH meter                                      |
| 67         | Nessler cylinder for limit test of Impurities |
| 68         | Crucibles                                     |
| 69         | HPLC Syringe                                  |

|             |                              |
|-------------|------------------------------|
| 70          | Glass filters                |
| 71          | Cuvettes                     |
| 72          | Buffer Capsules              |
| 73          | Conical flask                |
| 74          | Volumetric flask             |
| 75          | LOD bottles                  |
| 76          | Funnel                       |
| 77          | Measuring cylinder           |
| 78          | Pippettes                    |
| 79          | HPLC Guard Column            |
| 80          | HPLC Auto Sampler Vials      |
| 81          | HPLC Column                  |
| 82          | Arsenic limit test Apparatus |
| 83          | Spray bottle                 |
| 84          | Precoated TLC plate          |
| 85          | GC Vials                     |
| <b>VIII</b> | <b>DIFFERENT FOUMLATIONS</b> |
| 86          | Dilogel                      |
| 87          | Glycerin Suppositories.      |
| 88          | Skin Ointment                |
| 89          | Duckky Ear de toilette       |
| 90          | Index                        |
| 91          | Gelusil                      |
| 92          | Tus Q-D for dry Cough        |
| 93          | Nutrolin -B Syrup            |
| 94          | Cureon                       |
| 95          | Cyclopam                     |
| 96          | Arnopen                      |
| 97          | Soframycin                   |
| 98          | Nasiyon                      |
| 99          | Chloromycetin ear drops      |
| 100         | Ciprofloxacin Eye drops      |
| 101         | Orni-O                       |

|           |                               |
|-----------|-------------------------------|
| 102       | Syringe                       |
| 103       | Glycerin & NaCl Enema         |
| 104       | Paracetamol injection         |
| 105       | ENO                           |
| 106       | ORS                           |
| 107       | Evion Capsules.               |
| <b>IX</b> | <b>PLANT PRODUCTS</b>         |
| 108       | Mustard Seed black            |
| 109       | Cardamom                      |
| 110       | Gum Ghatti                    |
| 111       | Tragacanth                    |
| 112       | Karaya Gum                    |
| 113       | Nux Vomica Seed               |
| 114       | Pilocarpus                    |
| 115       | Galls                         |
| 116       | Quassia Wood                  |
| 117       | Mayro Balan                   |
| 118       | Squill                        |
| 119       | Acacia twig                   |
| 120       | Black Pepper                  |
| 121       | Isabgola                      |
| 122       | Ipecac plant                  |
| <b>X</b>  | <b>ANATOMY MODELS</b>         |
| 123       | Human brain                   |
| 124       | Human liver                   |
| 125       | Human heart                   |
| 126       | Human ear                     |
| 127       | Human eye                     |
| 128       | Dissection box                |
| 129       | Pectoral Girdle               |
| 130       | Lower limb                    |
| 131       | Vertebral Column              |
| <b>XI</b> | <b>TOXICOLOGICAL PRODUCTS</b> |

|     |                  |
|-----|------------------|
| 132 | Mc Dowells No.1  |
| 133 | Four Square      |
| 134 | Gold Flake       |
| 135 | Gold flake Kings |

Pharmacy museum

**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)**

The College has a well-maintained Medicinal Plant Garden (Aushadhsanjivane). It has hundreds of different varieties of medicinal plants tagged with their biological nomenclature. The medicinal plants garden is unique in that almost every one of the species of plants and herb with a long history of use in folk tradition. Details Area: Demarcation: In the college campus Arrangement: Permanent as per the requirement of light and soil for growth of plant Adequacy of the plants: As per the requirement of curriculum

|    | Botanical Name                               | Common name            | Family          | Uses  |
|----|--|------------------------|-----------------|---|
| 1  | <i>Delonix regia</i>                         | Gulmohar, Flame tree   | Caesalpiniaceae | anti-inflammatory, antimalarial, antimicrobial, antioxidant, cardio- protective, gastro-protective, and wound healing agent, antidiabetic       |
| 2  | <i>Albizia chinensis</i>                     | Rain tree              | Mimosoideae     | Used for anxiety, depression, sore throat   |
| 3  | <i>Acacia auriculiformis</i>                 | Siran                  | Fabaceae        | Antimalarial, hepatoprotective  |
| 4  | <i>Spathodua campanulata</i>                 | Rugtoora               | Bignomaceae     | used to treat malaria, HIV, diabetes mellitus, dysentery, ulcers, wounds, fever. a liver tonic and as a poison antidote                         |
| 5  | <i>Cassia fistula Linn.</i>                  | Amalatas               | Caesalpiniaceae | Purgative, used for cure of joint pain, migraine, dysentery etc.  |
| 6  | <i>Mangifera indica</i>                      | Mango/ Amba            | Anacardiaceae   | Edible fruit, nutritive, used as a diuretic, dentifrice, antiseptic, astringent, diaphoretic, hepatoprotective, stomachic, vermifuge, laxative  |
| 7  | <i>Alstonia scholaris R.Br.</i>              | Saptaparna /Saptaparni | Apocynaceae     | To treat fevers, chronic diarrhoea, dysentery, ulcers, rheumatic pains, cancer, malarial infection  |
| 8  | <i>Azadirachta indica A.Juss</i>             | Neem                   | Meliaceae       | Antimicrobial, in treating leprosy, eye disorders, bloody nose, intestinal worms, stomach upset, loss of appetite, skin ulcers                  |
| 9  | <i>Ficus religiosa Linn.</i>                 | Asvatta/Pipal          | Moraceae        | Used for treatment of cough, skin diseases, nausea, vomiting, diarrhoea   |
| 10 | <i>Peltophorum pterocarpum</i>               | Kondachinta            | Caesalpiniaceae | Used in case of eye diseases, muscular pain   |
| 11 | <i>Plumeria rubra</i><br>Linn.var.acutifolia | Gobur champa           | Apocynaceae     | Anti-inflammatory, hepatoprotective, antifertility agent  |
| 12 | <i>Allamanda cathartica Linn</i>             | Jahari sontakka        | Apocynaceae     | Use to treat liver tumors, jaundice, splenomegaly, and malaria.   |
| 13 | <i>Terminalia cattappa Linn.</i>             | Jangali Badam          | Combretaceae    | Used for treatment of inflammation diseases, wound healing, allergies, skin related problems, asthma, ulcer, cardiovascular diseases, diarrhoea |
| 14 | <i>Careya arborea Roxb.</i>                  | Kumbhi tree            | Cariaceae       | Used for treatment of ulcer, cough, eruptions in the skin, wound and promotes digestion   |

|    |  |                                 |                 |  |
|----|--|---------------------------------|-----------------|--|
| 15 | <i>Duranta plumieri</i> Jacq.<br><i>D. repens</i> Linn | Golden Dew Drop<br>Pigeon Berry | Verbenaceae     | antimicrobial, antioxidant, and insecticide  |
| 16 | <i>Lantana camera</i> Linn                             | Chadurang                       | Verbenaceae     | It is an antimicrobial, fungicidal and insecticidal, used in case of leprosy, ulcers, cancer, asthma   |
| 17 | <i>Salvia officinalis</i> Linn                         | Sage, Garden Sage               | Labiatae        | Used for the treatment of different kinds of disorders including seizure, ulcers, gout, rheumatism, inflammation, dizziness, tremor, paralysis, diarrhoea, and hyperglycaemia. |
| 18 | <i>Bauhinia purpurea</i> Linn                          | Khairwal, purple orchid tree    | Caesalpiniaceae | Used in case of goiter, glandular swellings, skin diseases, ulcers, diarrhoea, stomach tumors and wounds   |
| 19 | <i>Hibiscus rosasinensis</i>                           | Jaswandi                        | Malvaceae       | Used for treating wounds, inflammation, fever and coughs, diabetes, infections caused by bacteria and fungi, hair loss, and gastric ulcers                                     |
| 20 | <i>Codium variegatum</i>                               | Kodiho/Croton                   | Euphorbiaceae   | Tonic, purgative, febrifuge  |
| 21 | <i>Tabernaemontana coronaria</i> R. Br.                | Anant                           | Apocynaceae     | It has traditional folklore medicinal benefits such as an antiepileptic, anti-mania, brain tonic, and anti- oxidant  |
| 22 | <i>Achras sapota</i> Linn.                             | Chiku/Sapota                    | Sapotaceae      | Edible fruit, traditionally, it is used as a diuretic, expectorant and in ophthalmology  |
| 23 | <i>Indigofera gerardiana</i>                           | Indigo, Nili                    | Leguminosae     | Used in case of abdominal pain, broken bones   |
| 24 | <i>Polyalthia longifolia</i>                           | Devdaru                         | Annonaceae      | Used in traditional system of medicine for the treatment of fever, skin diseases, diabetes, hypertension and helminthiasis.  |
| 25 | <i>Eucalyptus lanceolatus</i>                          | Nilgiri                         | Myrtaceae       | Oil is antibacterial, antiinflammatory   |
| 26 | <i>Lagerstroemia lanceolata</i> wall                   | Ben Teak                        | Lythraceae      | Used in case of asthma, diabetes mellitus, chronic bronchitis, cold, cough and local application for aphthae of the mouth  |

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            |                                 |  |
| Mrs. Sanjyokta Kankonkar      | Lab Technician | 23-07-2007      | B.Sc, D. Pharm | B.Sc, D. Pharm | Nil                             | 1. Monitoring and maintenance of Pharmacology Laboratories I and II (including floor) 2. Monitoring and maintenance of Animal on Scheduled days 3. Monitoring and maintenance of Microbiology Laboratory. 4. Maintenance of Microbial cultures.  |
| Mrs. Vaishali Fadate Gaounkar | Lab Technician | 23-07-2007      | B.Sc           | B.Sc           | Certificate course in MS-Office | 1. Monitoring and maintenance M.Pharm Pharmaceutical Chemistry I Laboratory (including floor) 2. Monitoring and maintenance Pharmaceutical Analysis Laboratory (including floor) 3. Monitoring and maintenance of auditorium (ever Saturday 9.00am to 12.30pm)   |
| Miss. Atita Khandeparkar      | Lab Technician | 01-07-2010      | B.Sc           | B.Sc           | Certificate course in MS-Office | 1. Monitoring and maintenance of Pharmaceutics I and II Laboratory (including floor). 2. Monitoring and Maintenance of Museum 3. Monitoring and maintenance of Examination Cell ( including floor)   |
| Miss. Ameya Naik              | Lab Technician | 24-09-2014      | B.Sc           | B.Sc           | Certificate course in MS-Office | 1. Monitoring and maintenance of Pharmacognosy Laboratory ( including Floor) 2. Monitoring and maintenance of medicinal garden 3. Monitoring and maintenance M.Pharm Pharmaceutics - II (research )Laboratory. 4. Monitoring and Maintenance of Pilot plant 4. Monitoring and stock maintenance and care of First aid room (including floor) 5. Monitoring and maintenance of M.Pharm Pharmaceutics I and Pharmaceutics III Laboratory (including floor) |
| Mrs. Kirti Shirodkar          | Lab Technician | 01-07-2015      | D. Pharm       | D. Pharm       | Certificate course in MS-Office | 1. Monitoring and maintenance of Pharmaceutical Chemistry - I and II Laboratory (including floor) 2. Monitoring and maintenance of Examination Cell ( including floor)   |

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

Institute Marks : 10.00

The technical supporting staff for program specific laboratories is well qualified with Bachelor's Degree in Science and/or Diploma in Pharmacy. Most of the staff are working with the college for more than 5 years.

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

Institute Marks : 10.00

As a part of "Skill Development Programme" various workshops/ Seminars/Training programme were organised by the institute for the non-teaching technical staff of the college. Various SDPs organised by college are listed below

| Academic Year | Name of Programme   | Activity  | Attended by   |
|---------------|---------------------|---|---|
| 2017-18       | SDP 2017            | Handling and maintenance of pharmaceutical Equipment  | Mrs. Sanjyokta Khandeparkar<br>Mrs. Vaishali Fadate Gaounkar<br>Miss. Atita Khandeparkar<br>Miss. Ameya Naik<br>Mrs. Kirti Shirodkar<br>Mrs. Ujwal Patkar |
| 2018-19       | SDP 2018            | Techniques of Animal Handling and CPCSEA Guidelines   | Mrs. Sanjyokta Khandeparkar<br>Mrs. Vaishali Fadate Gaounkar<br>Miss. Atita Khandeparkar<br>Miss. Ameya Naik<br>Mrs. Kirti Shirodkar<br>Mrs. Ujwal Patkar |
| 2019-20       | SDP 2019            | E Literacy: Microsoft Office                          | Mrs. Sanjyokta Khandeparkar<br>Mrs. Vaishali Fadate Gaounkar<br>Miss. Atita Khandeparkar<br>Miss. Ameya Naik<br>Mrs. Kirti Shirodkar<br>Mrs. Ujwal Patkar |
| 2020-21       | SDP Digital Edition | ICT Tools for conduct of practical by Virtual Mode    | Mrs. Sanjyokta Khandeparkar<br>Mrs. Vaishali Fadate Gaounkar<br>Miss. Atita Khandeparkar<br>Miss. Ameya Naik<br>Mrs. Kirti Shirodkar<br>Mrs. Ujwal Patkar |
| 2021-22       | SDP Next Gen        | Precautionary measures in laboratory during pandemics | Mrs. Sanjyokta Khandeparkar<br>Mrs. Vaishali Fadate Gaounkar<br>Miss. Atita Khandeparkar<br>Miss. Ameya Naik<br>Mrs. Kirti Shirodkar                      |

## 7 CONTINUOUS IMPROVEMENT (75)

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

Total Marks 72.36

Total Marks 15.00

|                    |
|--------------------|
| No record exist(s) |
|--------------------|

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

Total Marks 15.00

Institute Marks : 15.00

| Items                      | 2017-18 (LYG) | 2016-17 (LYGm1) | 2015-16 (LYGm2) |
|----------------------------|---------------|-----------------|-----------------|
| Placement Index (from 4.7) | 0.94          | 0.97            | 1.00            |

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

Total Marks 7.36

Institute Marks : 7.36

| Academic Performance  | 2017-18 (LYG) | 2016-17 (LYGm1) | 2015-16 (LYGm2) |
|---|---------------|-----------------|-----------------|
| Mean of CGPA or mean percentage of all successful students(X) | 7.40          | 7.62            | 7.07            |
| Total number of successful students(Y)                        | 70.00         | 64.00           | 61.00           |
| Total number of students appeared in the examination(Z)       | 70.00         | 64.00           | 61.00           |
| API [ X*(Y/Z) ]:  | 7.40          | 7.62            | 7.07            |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.36

Academic Performance = Average API = [ (AP1 + AP2 + AP3)/3 ] : 7.36

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

Total Marks 15.00

| Item   |                         | 2020-21(CAYm1) | 2019-20(CAYm2) | 2018-19 (CAYm3) |
|--|-------------------------|----------------|----------------|-----------------|
| National Level Entrance Examination<br>Nil   | 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<br>Goa Common Entrance Test                  | No of students admitted | 113            | 77             | 63              |
|  | Opening Score/Rank      | 77             | 81             | 63              |
|  | Closing Score/Rank      | 35             | 38             | 47              |
| Name of the Entrance Examination for Lateral Entry or lateral entry details<br>Diploma in Pharmacy | No of students admitted | 5              | 6              | 5               |
|  | Opening Score/Rank      | 72.80          | 68.40          | 75              |
|  | Closing Score/Rank      | 56.2           | 58.40          | 71.8            |
| Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)                 |                         | 66.00          | 63.47          | 65.25           |

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

Total Marks 20.00

Institute Marks : 20.00

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

| POs | Target Level | Attainment Level | Observations |
|-----|--------------|------------------|--------------|
|-----|--------------|------------------|--------------|

## PO 1 : Pharmacy Knowledge

|      |      |      |                           |
|------|------|------|---------------------------|
| PO 1 | 2.30 | 1.72 | Target level not attained |
|------|------|------|---------------------------|

In the course of pharmaceutical inorganic chemistry students performance has been found consistently low with respect to attainment of some COs as it was difficult to understand basic concepts related to the subject.  
Action - Tutorial lectures were taken to improve basic concepts

## PO 2 : Planning abilities

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 2 | 2.08 | 1.59 | Target level attained |
|------|------|------|-----------------------|

In the course of Pharmaceutics-I students performance has been low to attain certain COs as they did not have any background knowledge of the dosage forms and Concept of GMP/GLP.  
Action: More focus was laid upon acquainting the students with GMP/GLP .

## PO 3 : Problem Analysis

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 3 | 2.00 | 1.50 | Target level attained |
|------|------|------|-----------------------|

Student were not able to attain certain COs in subject of Physical pharmaceutics I as it was difficult for the students to cope up with hypothesis, derivations and problems.

Action:

1. Focus was laid upon solving problems based on derivation.

#### PO 4 : Modern tool usage

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 4 | 1.92 | 1.48 | Target level attained |
|------|------|------|-----------------------|

In the course of Pharmaceutical analysis students performance has been low with respect to attainment of some COs as modern tool usage and equipment like analytical instruments were difficult to comprehend

Action: Industrial visits and training in industry were conducted to help students to gain practical understanding of the modern analytical instruments

#### PO 5 : Leadership skills

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 5 | 1.96 | 1.81 | Target level attained |
|------|------|------|-----------------------|

Action 1: students leadership skills were improved by encouraging their participation in various competitions and extra-curricular activities.

#### PO 6 : Professional identity

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 6 | 1.90 | 1.53 | Target level attained |
|------|------|------|-----------------------|

Action 1: Students were made aware of their professional responsibility by making it compulsory to wear labcoats, head gears, to maintain GMP.

#### PO 7 : Pharmaceutical Ethics

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 7 | 2.50 | 2.37 | Target level attained |
|------|------|------|-----------------------|

Action 1: Pharmaceutical jurisprudence subject imparts knowledge towards the ethics of the profession

#### PO 8 : Communication

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 8 | 1.55 | 1.31 | Target level attained |
|------|------|------|-----------------------|

Action 1: INSPIRE an interclass event that encompasses various competitions like elocution, debate, PowerPoint making etc. on subjects revolving the pharmacy profession are organised every year around the National pharmacy week to encourage the students gain knowledge about profession and improve communication skills.

#### PO 9 : The pharmacist and society

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 9 | 1.65 | 1.15 | Target level attained |
|------|------|------|-----------------------|

In the course of Community and Hospital Pharmacy, students performance was not satisfactory to attain certain COs as application of knowledge was required/  
Action: Health camps, guest lectures from eminent personalities in the pharmacy profession and training in community pharmacy was imparted to the students.

#### PO 10 : Environment and Sustainability

|       |      |      |                       |
|-------|------|------|-----------------------|
| PO 10 | 1.80 | 1.43 | Target level attained |
|-------|------|------|-----------------------|

Action 1: As a part of extracurricular activities, the college is actively engaging the students in Swachh Bharath Abhiyan, Vanmahotsav, International Yoga Day and various other international days dedicated to environment are celebrated

#### PO 11 : Life-long Learning

|       |      |      |                           |
|-------|------|------|---------------------------|
| PO 11 | 1.71 | 1.20 | Target level not attained |
|-------|------|------|---------------------------|

Action 1: Seminars, guest lectures under the series of "Re connect and we Connect" are being regularly organized to give latest information regarding the advancement in the field of pharmaceutical sciences.

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

| POs                              | Target Level | Attainment Level | Observations          |
|----------------------------------|--------------|------------------|-----------------------|
| <b>PO 1 : Pharmacy Knowledge</b> |              |                  |                       |
| PO 1                             | 2.19         | 1.83             | Target level attained |

In the course of Pharmaceutics- I (Dispensing and General Pharmacy) Students performance has been low with respect to attainment of some COs as it was revealed that the theory component was weak with respect to Basic concepts and their application  
 Action - Videos related to Process were shown during lectures to improve basic concepts

#### PO 2 : Planning abilities

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 2 | 1.99 | 1.70 | Target level attained |
|------|------|------|-----------------------|

In the course of Biopharmaceutics students' performance was low to attain certain COs as students did not get sufficient practice to apply their knowledge practically.  
 Action: - More practice would be given to students to solve problems.

#### PO 3 : Problem Analysis

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 3 | 1.91 | 1.59 | Target level attained |
|------|------|------|-----------------------|

In the course of Pharmaceutical Jurisprudence theory, student performance has been low with respect to attainment of some COs as analysis of answer scripts and discussions with the students revealed that, theoretical aspect of the subject was passive, and legal language in the subject was difficult to understand and memorise which hampered their applications in PO attainment.

Action:

1. Oral presentation and group discussion were conducted to improve their understanding about laws and legal aspects.

#### PO 4 : Modern tool usage

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 4 | 1.82 | 1.61 | Target level attained |
|------|------|------|-----------------------|

In the course of Microbiology Students performance has been low with respect to attainment of some COs as modern tool usage like molecular methods has been comparatively less as the course content focuses on basic microbiological techniques applicable for pharmacy students.

Action In the subject of pharmaceutical biotechnology molecular methods have been focused upon.

#### PO 5 : Leadership skills

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 5 | 1.86 | 1.64 | Target level attained |
|------|------|------|-----------------------|

Action 1: Students council is elected so as to lead the team to assist in planning and development of various cultural, sports, social, and other educational interest of students.

Action 2: Radicals and intercollegiate event is held every year to promote leadership qualities and team building activities in students.

#### PO 6 : Professional identity

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 6 | 1.80 | 1.52 | Target level attained |
|------|------|------|-----------------------|

Action 1: More focus was provided for professional identity as the program curriculum consists of Hospital and community pharmacy, Pharmaceutical Jurisprudence, Advance Pharmaceutics to deal with.

**PO 7 : Pharmaceutical Ethics**

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 7 | 2.40 | 2.25 | Target level attained |
|------|------|------|-----------------------|

Action 1: Students are motivated constantly by teachers inculcating the ethical values.

**PO 8 : Communication**

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 8 | 1.45 | 1.28 | Target level attained |
|------|------|------|-----------------------|

Action 1: Students are encouraged to participate in group discussion to improve communication skills.

**PO 9 : The pharmacist and society**

|      |      |      |                       |
|------|------|------|-----------------------|
| PO 9 | 1.55 | 1.19 | Target level attained |
|------|------|------|-----------------------|

In the course of Community and Hospital Pharmacy, students performance was not satisfactory to attain certain COs as application of knowledge was required.

Action: Health camps, Oral presentation and training in community pharmacy was given to the students.

**PO 10 : Environment and Sustainability**

|       |      |      |                       |
|-------|------|------|-----------------------|
| PO 10 | 1.70 | 1.40 | Target level attained |
|-------|------|------|-----------------------|

Action 1: Students are motivated to participate in Vanmahotsav, Swatch Bharat Abhiyan.

**PO 11 : Life-long Learning**

|       |      |      |                       |
|-------|------|------|-----------------------|
| PO 11 | 1.60 | 1.34 | Target level attained |
|-------|------|------|-----------------------|

Action: Student are encouraged to work as a volunteer in organising Continuing pharmacy education organised for registered pharmacist.

### POs Attainment Levels and Actions for Improvement- (2018-19)

| POs  | Target Level | Attainment Level | Observations              |
|--|--------------|------------------|---------------------------|
| <b>PO 1 : Pharmacy Knowledge</b>   |              |                  |                           |
| PO 1   | 2.30         | 1.72             | Target level not attained |
| In the course of pharmaceutical inorganic chemistry students performance has been found consistently low with respect to attainment of some COs as it was difficult to understand basic concepts related to the subject.<br>Action - Tutorial lectures were taken to improve basic concepts  |              |                  |                           |
| <b>PO 2 : Planning abilities</b>   |              |                  |                           |
| PO 2   | 2.08         | 1.59             | Target level attained     |
| In the course of Pharmaceutics-I students performance has been low to attain certain COs as they did not have any background knowledge of the dosage forms and Concept of GMP/GLP .<br>Action: More focus was laid upon acquainting the students with GMP/GLP .  |              |                  |                           |
| <b>PO 3 : Problem Analysis</b>   |              |                  |                           |
| PO 3   | 2.00         | 1.50             | Target level attained     |
| Student were not able to attain certain COs in subject of Physical pharmaceutics I as it was difficult for the students to cope up with hypothesis, derivations and problems.<br>Action:<br>1. Focus was laid upon solving problems based on derivation.   |              |                  |                           |
| <b>PO 4 : Modern tool usage</b>  |              |                  |                           |
| PO 4   | 1.92         | 1.48             | Target level attained     |
| In the course of Pharmaceutical analysis students performance has been low with respect to attainment of some COs as modern tool usage and equipment like analytical instruments were difficult to comprehend<br>Action: Industrial visits and training in industry were conducted to help students to gain practical understanding of the modern analytical instruments |              |                  |                           |

| <b>PO 5 : Leadership skills</b>   |      |      |                           |
|---|------|------|---------------------------|
| PO 5  | 1.96 | 1.81 | Target level attained     |
| Action 1: students leadership skills were improved by encouraging their participation in various competitions and extra-curricular activities.  |      |      |                           |
| <b>PO 6 : Professional identity</b>   |      |      |                           |
| PO 6  | 1.90 | 1.53 | Target level attained     |
| Action 1: Students were made aware of their professional responsibility by making it compulsory to wear labcoats, head gears, to maintain GMP.  |      |      |                           |
| <b>PO 7 : Pharmaceutical Ethics</b>   |      |      |                           |
| PO 7  | 2.50 | 2.37 | Target level attained     |
| Action 1: Pharmaceutical jurisprudence subject imparts knowledge towards the ethics of the profession   |      |      |                           |
| <b>PO 8 : Communication</b>   |      |      |                           |
| PO 8  | 1.55 | 1.31 | Target level attained     |
| Action 1: INSPIRE an interclass event that encompasses various competitions like elocution, debate, PowerPoint making etc. on subjects revolving the pharmacy profession are organised every year around the National pharmacy week to encourage the students gain knowledge about profession and improve communication skills. |      |      |                           |
| <b>PO 9 : The pharmacist and society</b>  |      |      |                           |
| PO 9  | 1.65 | 1.15 | Target level not attained |
| In the course of Community and Hospital Pharmacy, students performance was not satisfactory to attain certain COs as application of knowledge was required.<br>Action: Health camps, guest lectures from eminent personalities in the pharmacy profession and training in community pharmacy was imparted to the students.      |      |      |                           |

| <b>PO 10 : Environment and Sustainability</b>  |      |      |                           |
|--|------|------|---------------------------|
| PO 10  | 1.80 | 1.43 | Target level attained     |
| Action 1: As a part of extracurricular activities, the college is actively engaging the students in Swachh Bharath Abhiyan, Vanmahotsav, International Yoga Day and various other international days dedicated to environment are celebrated |      |      |                           |
| <b>PO 11 : Life-long Learning</b>  |      |      |                           |
| PO 11  | 1.71 | 1.20 | Target level not attained |
| Action 1: Seminars, guest lectures under the series of "Re connect and we Connect" are being regularly organized to give latest information regarding the advancement in the field of pharmaceutical sciences.                               |      |      |                           |

**8 STUDENT SUPPORT SYSTEMS (50)** Total Marks 50.00

**8.1 Mentoring system to help at individual levels (5)** Total Marks 5.00  
Institute Marks : 5.00

| <b>Type of mentoring:</b> All-round development | <b>Number of faculty mentors:</b>   |                   |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |
|---|---|-------------------|---------------|-------------------|---|---------|----|---|---------|----|---|---------|----|---|---------|----|
|   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Sr. No.</th> <th style="text-align: center; padding: 2px;">Academic year</th> <th style="text-align: center; padding: 2px;">Number of Mentors</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td><td style="text-align: center; padding: 2px;">2018-19</td><td style="text-align: center; padding: 2px;">18</td></tr> <tr> <td style="text-align: center; padding: 2px;">2</td><td style="text-align: center; padding: 2px;">2019-20</td><td style="text-align: center; padding: 2px;">20</td></tr> <tr> <td style="text-align: center; padding: 2px;">3</td><td style="text-align: center; padding: 2px;">2020-21</td><td style="text-align: center; padding: 2px;">18</td></tr> <tr> <td style="text-align: center; padding: 2px;">4</td><td style="text-align: center; padding: 2px;">2021-22</td><td style="text-align: center; padding: 2px;">18</td></tr> </tbody> </table> | Sr. No.           | Academic year | Number of Mentors | 1 | 2018-19 | 18 | 2 | 2019-20 | 20 | 3 | 2020-21 | 18 | 4 | 2021-22 | 18 |
| Sr. No.   | Academic year   | Number of Mentors |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |
| 1   | 2018-19   | 18                |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |
| 2   | 2019-20   | 20                |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |
| 3   | 2020-21   | 18                |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |
| 4   | 2021-22   | 18                |               |                   |   |         |    |   |         |    |   |         |    |   |         |    |

The institution has developed a well organized system for mentoring system to support the students.

- Mentoring system of the institution is focused on all round development of the students and counseling them addressing different dynamic and individual needs in areas such as academics, career advancement, personal problems and facility demand etc.
- Mentoring system is handled by well experienced staff which includes the Principal of the college and a faculty member.
- Group of 4-7 students is allocated to each Mentor at the beginning of the first year, for better working of system. These mentors act as a local student counselor and take the responsibility of mentoring students till the completion of the course. The mentees meet their mentors depending on the needs.
- Mentoring staff regularly monitor and counsel respective students, assist them in
  - Academics,
  - Trainings and projects
  - Participation in co-curricular and extra co-curricular activities

- Different scholarships for student support by government and other agencies
- In dealing with problems faced in college as well as personal issues
- Entrance exams

#### **8.1.1 Purpose of mentorship system:**

Newly admitted B. Pharm. students may face certain challenges in various aspects like adaptation to new environment, academic schedule, understanding the needs of the curriculum and development of healthy interpersonal relationship with peers and teachers.

This system adapted for the value additions to the students like

- Bridging the gap between the teachers and students.
- Creation of a better environment in college, where students can approach teacher for both educational and personal guidance.
- Enhancement of knowledge base for both teachers and students alike, due to effective two-way communication.
- Awareness and support to students for entrance examinations.
- Awareness and support to students for obtaining different scholarships.
- Motivation for higher studies, job placement and entrepreneurship.
- Advice and support for improvement in academic performance, provide course specific guidance and over all development.

#### **8.1.2 Process of mentorship system:**

The mentorship system is administered and monitored by the Principal and a coordinator (Faculty Member).

The newly admitted B.Pharm. students are made aware of mentorship system during their induction program.

During this, a mentor list is prepared and a notice is raised.

Then the students are allotted and introduced to their respective mentors. The same mentee - mentor are retained until the end of the B. Pharm. program (4 academic years).

The mentor –mentee meetings are held as and when required.

A mentorship booklet is provided to each student and their every crucial record is maintained throughout the B.Pharm. course. The format of booklet is attached below.

#### **8.1.3 Mentor system coordinator:**

Ms. Suwarna Bobde (Assistant Professor, Department of Pharmaceutics, PES's Rajaram and Tarabai Bandekar college of Pharmacy).

| Name of Mentor          | B.Pharm II Year | B.Pharm III Year | B.Pharm IV Year |
|-------------------------|-----------------|------------------|-----------------|
| Dr. Celina Nazareth     | 6               | 4                | 4               |
| Dr. Shilpa Bhilegaonkar | 6               | 4                | 4               |
| Dr. Suwarna Bobde       | 6               | 4                | 4               |
| Dr. Leena Sawaikar      | 6               | 5                | 4               |
| Dr. Swati Keny          | 6               | 5                | 4               |
| Mr. Pankaj Gajare       | 7               | 4                | 5               |
| Dr. Mangirish Deshpande | 7               | 4                | 5               |
| Dr. Nilambari Gurav     | 7               | 4                | 4               |
| Dr. Pearl Dighe         | 7               | 4                | 4               |

|                          |   |   |   |
|--------------------------|---|---|---|
| Mr. B Biradar            | 7 | 4 | 4 |
| Ms. Gauri Angle          | 7 | 4 | 4 |
| Ms. Soniya Naik          | 7 | 4 | 4 |
| Mr. Sandesh Somnache     | 7 | 4 | 4 |
| Mrs. Arti Pednekar       | 7 | 4 | 4 |
| Mrs. Saumya Vernekar     | 7 | 4 | 4 |
| Ms. Chaitali Tendulkar   | 7 | 4 | 4 |
| Ms Savee Kamat           | - | 4 | - |
| Ms Kamakshi Kuncolienkar | 7 | 4 | - |
| Ms Ashwini Jadhav        | 7 | 4 | - |
| Mrs. Sarika Kerkar       | - | 4 | 4 |

Semester IV Academic Year: 2021-2022 ( B.Pharm II Year)

### MENTOR-- STUDENT LIST 2020-21

| ROLL NO | STUDENT NAME                | MENTOR                  |
|---------|-----------------------------|-------------------------|
| 1.      | AACHAL ANANT SHIRODKAR      | DR. CELINA NAZARETH     |
| 2.      | AACHAL CHANDRAKANT NAIK     | DR. CELINA NAZARETH     |
| 3.      | AIZWAL FRANCISCA VAZ        | DR. CELINA NAZARETH     |
| 4.      | AKANSHA VINAY DHAWALIKER    | DR. CELINA NAZARETH     |
| 5.      | AKSHAY SOMNATH ALVE         | DR. CELINA NAZARETH     |
| 6.      | AMISHA CHANDRAKANT NAIK     | DR. CELINA NAZARETH     |
| 7.      | AMISHA SURYAKANT MANDREKAR  | DR. SHILPA BHILEGAONKAR |
| 8.      | ANAND SAMEER BANDORCAR      | DR. SHILPA BHILEGAONKAR |
| 9.      | ANANYA KATKAR               | DR. SHILPA BHILEGAONKAR |
| 10.     | ANIRUDDH ANAND NAIK         | DR. SHILPA BHILEGAONKAR |
| 11.     | ASHVIT NARAYAN NAIK         | DR. SHILPA BHILEGAONKAR |
| 12.     | BARATH CHHAGANLAL PRAJAPATE | DR. SHILPA BHILEGAONKAR |
| 13.     | BHARGAVI XIRAMA JOSHI       | DR. SUWARNA BOBDE       |
| 14.     | BHOMKAR CHANDAN NANU        | DR. SUWARNA BOBDE       |
| 15.     | CHANDANA ANANTHA            | DR. SUWARNA BOBDE       |
| 16.     | CLAEVIA THERESMARI BRAGANZA | DR. SUWARNA BOBDE       |
| 17.     | DELORA HELOSE CARDOSO       | DR. SUWARNA BOBDE       |
| 18.     | DESAI MOHIT MUKUND          | DR. SUWARNA BOBDE       |
| 19.     | DESAI SHUBHAM KRISHNAKANT   | DR. LEENA SAWAIKAR      |
| 20.     | DIANDRA LISHA SOUZA         | DR. LEENA SAWAIKAR      |
| 21.     | DIKSHITA LAVU GAWDE         | DR. LEENA SAWAIKAR      |
| 22.     | DINISHA DILIP KURTARKAR     | DR. LEENA SAWAIKAR      |
| 23.     | DIVYA DEVIDAS NAIK          | DR. LEENA SAWAIKAR      |
| 24.     | DORIS ESHA FURTADO          | DR. LEENA SAWAIKAR      |
| 25.     | DURGA RAJESH DEVIMANEKAR    | DR. SWATI KENY          |

|     |                            |                         |
|-----|----------------------------|-------------------------|
| 26. | RUNA GOMES                 | DR. SWATI KENY          |
| 27. | GANDHALI BALKRISHNA AER    | DR. SWATI KENY          |
| 28. | GOUTHMI VIVEK GAUDE        | DR. SWATI KENY          |
| 29. | GOVEKAR RUTIK RATNAKAR     | DR. SWATI KENY          |
| 30. | HARSHITHA                  | DR. SWATI KENY          |
| 31. | HIMANI SANTOSH CHAVAN      | MR. PANKAJ GAJARE       |
| 32. | JESWIL TILDON REBELO       | MR. PANKAJ GAJARE       |
| 33. | KESHAV NARAYAN SHETGAONKAR | MR. PANKAJ GAJARE       |
| 34. | KRUPA ATMARAM NAIK GAONKAR | MR. PANKAJ GAJARE       |
| 35. | KUMUD MAHESH BONGALE       | MR. PANKAJ GAJARE       |
| 36. | LATISHA DEVIDAS REVADKAR   | MR. PANKAJ GAJARE       |
| 37. | LEANDRA SENITA NORONHA     | MR. PANKAJ GAJARE       |
| 38. | LEELA NANDAKUMAR PARAB     | DR. MANGIRISH DESHPANDE |
| 39. | LEONA LISA FERNANDES       | DR. MANGIRISH DESHPANDE |
| 40. | MACKANZIE AARON FERNANDES  | DR. MANGIRISH DESHPANDE |
| 41. | MANDREKAR ROHIT RAJENDRA   | DR. MANGIRISH DESHPANDE |
| 42. | MANISHA SANTOSH TAMSE      | DR. MANGIRISH DESHPANDE |
| 43. | MAYVOLA JUDEE ALEMAO       | DR. MANGIRISH DESHPANDE |
| 44. | MOHAMMED RAZAULL MUSTAFA   | DR. MANGIRISH DESHPANDE |

PRINCIPAL  
PES's Rajaram and Tatyasaheb Bandekar  
COLLEGE OF PHARMACY

|     |                            |                     |
|-----|----------------------------|---------------------|
| 45. | BATERJ                     |                     |
| 45. | MRIDUL MEGHNATH CHODANKAR  | DR. PEARL DIGHE     |
| 46. | NADAF MOHAMEDRAFIC KASIM   | DR. PEARL DIGHE     |
| 47. | NAVEEN KUMAR               | DR. PEARL DIGHE     |
| 48. | NEEKET RAMAKANT GAUNKAR    | DR. PEARL DIGHE     |
| 49. | NEETA GURUDAS GAVDE        | DR. PEARL DIGHE     |
| 50. | NEHAL DAMODAR VERNEKAR     | DR. PEARL DIGHE     |
| 51. | NIDHI NAMDEV RANE          | DR. PEARL DIGHE     |
| 52. | NIKITA RAMESH BYRAPURA     | DR. NILAMBARI GURAV |
| 53. | NIKITA VIRENDRA HUBLIKAR   | DR. NILAMBARI GURAV |
| 54. | NISHA RAGHUNATH GAUNKER    | DR. NILAMBARI GURAV |
| 55. | NITIKESH DIGAMBAR BANDEKAR | DR. NILAMBARI GURAV |
| 56. | OMKAR ASHOK DHAWASKAR      | DR. NILAMBARI GURAV |
| 57. | OMKAR SHIVRAM GAWAS        | DR. NILAMBARI GURAV |
| 58. | PRABHU SAHIL PRAVIN        | DR. NILAMBARI GURAV |
| 59. | PRACHI PRAKASH GAONKAR     | MR. B. BIRADAR      |
| 60. | PRAJAKTA KRISHNANATH NAIK  | MR. B. BIRADAR      |
| 61. | PRANITA DADI NAIK          | MR. B. BIRADAR      |
| 62. | PRICIDA SILVA              | MR. B. BIRADAR      |
| 63. | RAJAN SURESH SHARMA        | MR. B. BIRADAR      |
| 64. | RAJAT RAJESH NAIK          | MR. B. BIRADAR      |
| 65. | REEMA RAMDAS PARVATKAR     | MR. B. BIRADAR      |
| 66. | REEVE AGNELO MENDES        | MS. GAURI ANGLE     |
| 67. | RITAKSHA GAJANAN SALGAOKAR | MS. GAURI ANGLE     |

| 98. | 99.                              | 100.                |
|-----|----------------------------------|---------------------|
| 69. | RITIKA TULSHIDAS MANDREKAR       | MS. GAURI ANGLE     |
| 70. | RIYA RAGHUNATH SINAI SANCORDEXAR | MS. GAURI ANGLE     |
| 71. | RUCHI CHANDRAJAS NAYAK           | MS. GAURI ANGLE     |
| 72. | RUTIKA SADANAND NAIK             | MS. GAURI ANGLE     |
| 73. | SADANAND NILESH MAHADESHWAR      | MS SONIYA NAIK      |
| 74. | SAIDNYA SATYAVAN GAWAS           | MS SONIYA NAIK      |
| 75. | SAILEE PRADEEP NAIK              | MS SONIYA NAIK      |
| 76. | SAMEER MEHBOOB PATEL             | MS SONIYA NAIK      |
| 77. | SAMIDHA SUNIL KERKAR             | MS SONIYA NAIK      |
| 78. | SAMRIDDHI SUSHANT BHAGAT         | MS SONIYA NAIK      |
| 79. | SANA SAGUN PARAB                 | MS SONIYA NAIK      |
| 80. | SANISH NARENDRA TARI             | MR SANDESH SOMNACHE |
| 81. | SANIYA UMESH VOLVAIKAR           | MR SANDESH SOMNACHE |
| 82. | SANJYOT TULSIDAS SHIRODKAR       | MR SANDESH SOMNACHE |
| 83. | SANKALP SANDESH RAIKAR           | MR SANDESH SOMNACHE |
| 84. | SANSKRUTI SHIVAJI PHADKE         | MR SANDESH SOMNACHE |
| 85. | SATYAM SAMPURNANAND RANE         | MR SANDESH SOMNACHE |
| 86. | SHAIKH ZULFATH BI MEHBOOB        | MR SANDESH SOMNACHE |
| 87. | SHARELEN MAHIMA VAZ              | MS ARTI PEDNEKAR    |
| 88. | SHARMAD PRASHANT PEDNEKAR        | MS ARTI PEDNEKAR    |
| 89. | SHATAKSHI AJIT DEVARJI           | MS ARTI PEDNEKAR    |

  
MS ARTI PEDNEKAR

|      |                                 |                              |
|------|---------------------------------|------------------------------|
| 90.  | SHIFFA SHAIKH                   | MS ARTI PEDNEKAR             |
| 91.  | SHIVAM RAM                      | MS ARTI PEDNEKAR             |
| 92.  | SHRADDHA SAKHARAM DESAI         | MS ARTI PEDNEKAR             |
| 93.  | SHRINKY PARESH DANGI            | MS ARTI PEDNEKAR             |
| 94.  | SIDDHANT GAJANAN NARVEKAR       | MS SAUMYA VERNEKAR           |
| 95.  | SIDDHI SATYAWAN AGADYEKAR       | MS SAUMYA VERNEKAR           |
| 96.  | SIDHAVI SUDHAKAR PARIT KAKODKAR | MS SAUMYA VERNEKAR           |
| 97.  | SIDRA KHAN                      | MS SAUMYA VERNEKAR           |
| 98.  | SIMRAN MANOJ KUMAR BANDODKAR    | MS SAUMYA VERNEKAR           |
| 99.  | SIYA DATTA NAIK                 | MS SAUMYA VERNEKAR           |
| 100. | SONIYA SOPURLO GAONKAR          | MS SAUMYA VERNEKAR           |
| 101. | SRUSHTI GOPAL NARVEKAR          | MS CHAITALI PRABHU TENDULKAR |
| 102. | SUDAKSHI MADHUSUDAN SHET        | MS CHAITALI PRABHU TENDULKAR |

| NARVEKAR |  |                                 |
|----------|--|---------------------------------|
| 103.     | SUKANYA APPASAHEB RANE                       | MS CHAITALI PRABHU<br>TENDULKAR |
| 104.     | SUMUKH SANTOSH TIWARI                        | MS CHAITALI PRABHU<br>TENDULKAR |
| 105.     | SUNIDHI SUBHASH KOMARPANT                    | MS CHAITALI PRABHU<br>TENDULKAR |
| 106.     | SUSANNE VALERIE DIAŚ                         | MS CHAITALI PRABHU<br>TENDULKAR |
| 107.     | TANISHQUE MANGESH BORKAR                     | MS CHAITALI PRABHU<br>TENDULKAR |
| 108.     | TANVI SADASHIV CHARJ                         | MS ASHWINI JADHAV               |
| 109.     | TEJAS PRAKASH DESAI                          | MS ASHWINI JADHAV               |
| 110.     | UPASANA SHANKAR KUMBHAR                      | MS ASHWINI JADHAV               |
| 111.     | VAIBHAVI DHURI                               | MS ASHWINI JADHAV               |
| 112.     | VAIBHAVI PRADEEP GOVEKAR                     | MS ASHWINI JADHAV               |
| 113.     | VAISHNAVI VISHWANATH PALNI                   | MS ASHWINI JADHAV               |
| 114.     | VEDA NARENDRA PRABHU                         | MS ASHWINI JADHAV               |
| 115.     | VEDA PRASHANT KENI                           | MS KAMAKSHI KUNCOLIENKAR        |
| 116.     | VEDHANT MAHADEV NAIK                         | MS KAMAKSHI KUNCOLIENKAR        |
| 117.     | VISHNUKANT ALIAS SHRIYASH<br>SHESH SHIRODKAR | MS KAMAKSHI KUNCOLIENKAR        |
| 118.     | VISHWAJA SOMNATH<br>KHANDOLKAR               | MS KAMAKSHI KUNCOLIENKAR        |
| 119.     | VRUDHOJI JANMEJAY PARAB                      | MS KAMAKSHI KUNCOLIENKAR        |
| 120.     | VRUSHABH SUMANT KHAUNTE                      | MS KAMAKSHI KUNCOLIENKAR        |
| 121.     | YEESHA SANJAY GAD                            | MS KAMAKSHI KUNCOLIENKAR        |
| 122.     | YOGESH SHAILENDRA NAIK                       | MS KAMAKSHI KUNCOLIENKAR        |



PRINCIPAL  
PES's Rajaram and Tarabai Bandekar  
College of Pharmacy  
Ponda, Goa

Ponda Education Society's  
**Rajaram and Tarabai Bandekar**  
**College of Pharmacy**  
Farmagudi, Ponda Goa 403 401



## MENTORSHIP/ACADEMIC COUNSELLING

Passport  
size Photo

Name of the student : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of the Mentor : \_\_\_\_\_

Semester ( Circle the current semester ) : 1 2 3 4 5 6 7 8

Year of Admission : \_\_\_\_\_

Contact Numbers (s) : \_\_\_\_\_

E-Mail ID : \_\_\_\_\_

Ponda Education Society's  
**Rajaram and Tarabai Bandekar**  
**College of Pharmacy**  
Farmagudi, Ponda Goa 403 401

## MENTORSHIP / ACADEMIC COUNSELLING

## I. Personal Information :

1. Name in full : \_\_\_\_\_
2. Date of Birth : \_\_\_\_\_
3. Mother Tongue : \_\_\_\_\_
4. Languages Known : \_\_\_\_\_

|          |       |       |       |
|----------|-------|-------|-------|
| To Write | _____ | _____ | _____ |
| To Read  | _____ | _____ | _____ |
| To Speak | _____ | _____ | _____ |

5. Staying with Parent / guardian / Hostel \_\_\_\_\_

6. Address for correspondence (Parent / Guardian) with contact number :

|       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

Mobile No. \_\_\_\_\_ Landline No. \_\_\_\_\_

7. Present address of the student with contact number :

|       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

Mobile No. \_\_\_\_\_ Landline No. \_\_\_\_\_

8. E-mail Id of Parent (s) : \_\_\_\_\_

Email Id of student \_\_\_\_\_

## II. Family Background :

| Sl. No. | Particular                     | Father | Mother |
|---------|--------------------------------|--------|--------|
| 1.      | Name                           | _____  | _____  |
| 2.      | Occupation                     | _____  | _____  |
| 3.      | Monthly Income                 | _____  | _____  |
| 4.      | Qualification                  | _____  | _____  |
| 5.      | Office Address with Contact No | _____  | _____  |

1. Number of Members in the house :

a) Number of Brothers \_\_\_\_\_

|       |       |
|-------|-------|
| _____ | _____ |
|-------|-------|

b) Number of dependents (if any) who are :

Sisters: \_\_\_\_\_

|       |       |
|-------|-------|
| _____ | _____ |
|-------|-------|

i) Disabled :

|       |       |
|-------|-------|
| _____ | _____ |
|-------|-------|

ii) Aged :

|       |       |
|-------|-------|
| _____ | _____ |
|-------|-------|

2. Present place of living of parent / guardian / hostel

|       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|-------|-------|-------|-------|

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**III. Special Interest :**

1. Tick your places of interest :

|                                  |                                 |                                     |   |
|----------------------------------|---------------------------------|-------------------------------------|---|
| Reading <input type="checkbox"/> | Sports <input type="checkbox"/> | Literature <input type="checkbox"/> | Dance <input type="checkbox"/>          |
| Music <input type="checkbox"/>   | Acting <input type="checkbox"/> | Politics <input type="checkbox"/>   | Social Service <input type="checkbox"/> |

2. Hobbies :

3. Details of Extra/Co-curricular Achievements :

4. Career Guidance required in which field :

**IV. Health (Report from Medical Officer) : (As on : \_\_\_\_\_ )**

1. Height : 2. Weight :

3. Blood Group : 4. Hb Count :

5. Eye-sight : 6. B.P. :

7. Whether interested in donating blood :

8. Do you have difficulty in speech/hearing :

9. Allergic to :

10. Other health/behavioural problems :

**V. If you have any of the following problems, please detail them.***(Feel free to write, as this report is kept confidential)*

1. Personal Problems :
2. Educational Problems :
3. Social Problems :
4. Financial Problems :
5. Any Other :

**VI. About ME :**

1. What am I now:

2. What I want to be tomorrow:

3. Strengths:

4. Weaknesses:

**VII. Study Details :**

| S.No. | Degree              | Name and Address of the School /College | Year | Percentage |
|-------|---------------------|---|------|------------|
| 1.    | SSCE                |   |      |            |
| 2.    | HSSCE               |   |      |            |
| 3.    | DIPLOMA IN PHARMACY |   |      |            |
| 4.    | B. PHARM            |   |      |            |

**VIII. ACADEMIC RECORD IN THE DEPARTMENT :**

SEMESTER: Theory      Month:      Year:

Class :

| Sl No. | Subjects | Marks Obtained |       |       | Pass/Fail | Remarks |
|--------|----------|----------------|-------|-------|-----------|---------|
|        |          | Int.I          | Final | Total |           |         |
| 1      |          |                |       |       |           |         |
| 2      |          |                |       |       |           |         |
| 3      |          |                |       |       |           |         |
| 4      |          |                |       |       |           |         |
| 5      |          |                |       |       |           |         |
| 6      |          |                |       |       |           |         |
| 7      |          |                |       |       |           |         |
| 8      |          |                |       |       |           |         |
|        |          |                |       |       |           |         |

**VIII. ACADEMIC RECORD IN THE DEPARTMENT :**

SEMESTER: Practical      Month:      Year:

Class :

| Sl No. | Subjects | Marks Obtained |       |       | Pass/Fail | Remarks |
|--------|----------|----------------|-------|-------|-----------|---------|
|        |          | Int.I          | Final | Total |           |         |
| 1      |          |                |       |       |           |         |
| 2      |          |                |       |       |           |         |
| 3      |          |                |       |       |           |         |
| 4      |          |                |       |       |           |         |
| 5      |          |                |       |       |           |         |
| 6      |          |                |       |       |           |         |
| 7      |          |                |       |       |           |         |
| 8      |          |                |       |       |           |         |
|        |          |                |       |       |           |         |

Overall Class Obtained : \_\_\_\_\_

- 4 -

**1. GOALS/ACHEVEMENTS DURING SEMESTER :**

**2. Reports from Professors In-Charge of Guidance Batch :**

1) Name of the Mentor :

2) Has the Student been regular in his/her attendance :

3) How is your contact with the student :

|          |                     |             |
|----------|---------------------|-------------|
| FREQUENT | MODERATELY FREQUENT | IN FREQUENT |
|----------|---------------------|-------------|

4) Have you heard about him/ her in the matter of :

Conduct :

Intelligence :

Regularity :

Interest in Co and Extra-Curricular activities :

5) Do you have anything special to be mentioned :

6) Type of personality :

**3. Remarks of the other Professors who know about the student :**

**4. What assistance is recommended :**

**5. What assistance is given ?****6. Remark of the mentor :****Signature of Staff Mentor**

. S.

**8.1.4 Effectiveness of Mentor system:**

Students are successful in obtaining ranks at Goa University (Gold medals), qualifying entrance exam (General Pharmacy Aptitude Test) and obtaining various scholarships.

**GPAT Qualification**

| Sr.No. | Academic year | No. of students |
|--------|---------------|-----------------|
| 1.     | 2018-19       | 05              |
| 2.     | 2019-20       | 06              |
| 3.     | 2020-21       | 04              |
| 4.     | 2021-22       | 02              |

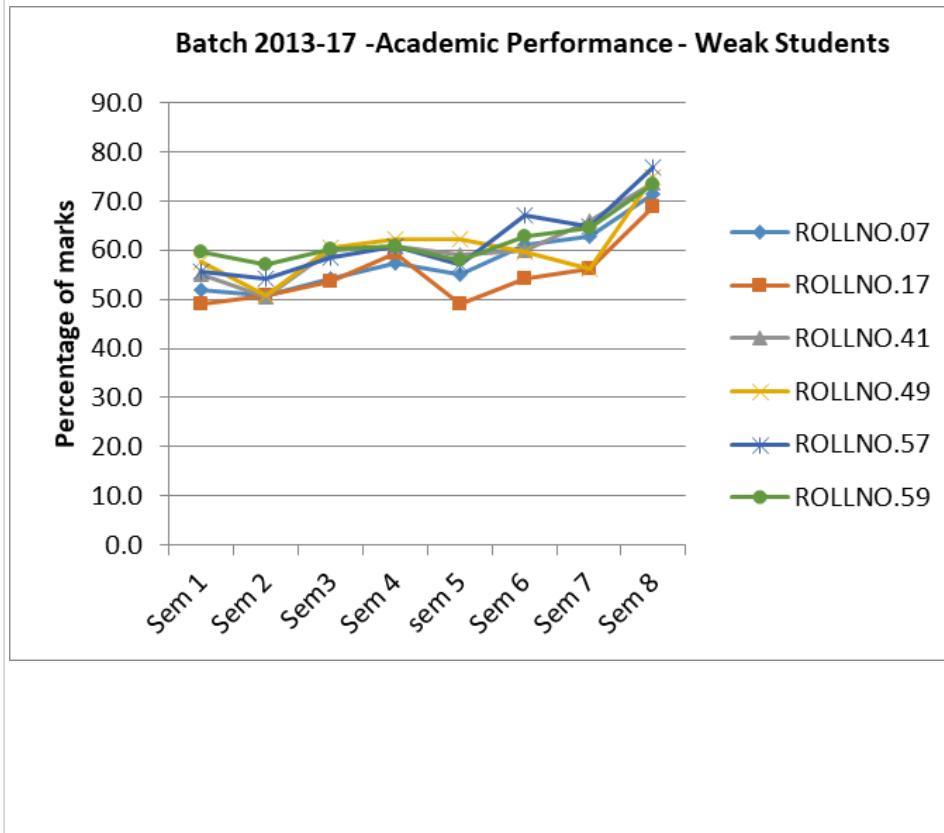
**NIPER Qualification**

| Sr.No. | Academic year | No. of students |
|--------|---------------|-----------------|
| 1.     | 2020-21       | 02              |

**Student scholarships:**

| Agency   | Number of Students |         |         |
|--|--------------------|---------|---------|
|  | 2018-19            | 2019-20 | 2020-21 |
| Post matric scholarship to Other backward class (OBC) students | -                  | -       | -       |
| Post matric scholarship to Scheduled Tribe (ST) students       | 21                 | 26      | 32      |
| Gagan Bharati Shiksha Yojana for Scheduled Tribe (ST) students | 21                 | 26      | 32      |
| Merit Based Award Scheme by Government of Goa                  | 04                 | 05      | 05      |
| AICTE Pragati Scholarship for girls                            | -                  | -       | 06      |

## Academic progress of weak students:



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

Total Marks 10.00

Institute Marks : 10.00

The institution has an effective feedback analysis mechanism and feedback forms which has questionnaire that includes the essential aspects of teaching and learning to improve quality and effectiveness.

The main objectives of the feedback system are as follows:

- To provide the platform to the students in identifying a greater role in the teaching learning process.
- To help the faculty modification and improvement in the teaching methodology at the institution.
- To develop a communication channel between the management and students.
- To maintain the functioning of the institution system in the field of teaching learning process, library, sports, administration, etc at its level best.

## 8.2.1 Process of Feedback:

- Feedback questions are framed with inputs from Principal, HOD's and senior professors to analyze teaching-learning process.
- Feedback is collected anonymously and in a confidential manner from all students for all the subjects taught at end of every semester.
- Feedback is analyzed in an unbiased and structured manner to assess teaching attitude, strength & weakness of a teaching process, facilitating improvement in quality of teaching.
- Summary of feedback analysis is conveyed to the concerned faculty in the form of report. The points of teaching aspects the faculty need to rectify and improve are discussed with the Principal. Corrective measures are suggested.
- Implementation of such suggestions in the subsequent semesters is monitored by Principal.

- Feedback is used by the faculty to overcome their weakness and to bridge the gap between student's expectations.
- Similarly appreciations are also made for good performances, through mention in the College council meetings.

#### Corrective measures

| Year    | No. of Staff | Improvements suggested  | Corrective measures  |
|---------|--------------|---|--|
| 2018-19 | 3            | <ul style="list-style-type: none"> <li>Preparedness to class</li> <li>Linking class to previous class</li> <li>Pace of syllabus completion</li> </ul> | <ul style="list-style-type: none"> <li>Counselling and guidance of concerned staff</li> <li>Faculty Development Program</li> </ul> |
| 2019-20 | 3            | <ul style="list-style-type: none"> <li>Use of audio-visual aids</li> <li>Change in pace of presentation</li> <li>Clarity in teaching</li> </ul>       | <ul style="list-style-type: none"> <li>Counselling and guidance of concerned staff</li> <li>Faculty Development Program</li> </ul> |
| 2020-21 | 3            | <ul style="list-style-type: none"> <li>Updated information</li> <li>To make class more effective</li> <li>Stimulation of students to think</li> </ul> | <ul style="list-style-type: none"> <li>Counselling and guidance of concerned staff</li> <li>Faculty Development Program</li> </ul> |
| 2021-22 | Nil          | -   | -  |

#### PES's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY

FARMAGUDI, PONDA- GOA 403401

#### FEEDBACK FROM STUDENTS

Name of the Subject Teacher: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_/20\_\_\_\_

Subject: \_\_\_\_\_ Class (Sem): \_\_\_\_\_

**NOTE:** 1. Students having minimum 75% attendance & who have cleared all the subjects of previous semester are eligible to give the feedback.  
 2. Answer honestly without fear to all questions and select only one choice for each question.  
 3. Be anonymous, do not disclose your identity on feedback forms.

1. Does the teacher state the objective clearly at the beginning of each class?

Very Good  Good  Average  Poor

2. Does the teacher explain important concepts/ideas in a way that can be understood?

Very Good  Good  Average  Poor

3. Does the teacher create/stimulate interest in the subject?  
Very Good  Good  Average  Poor

4. Does the teacher change the pace while presentation by shifting the emphasis on practical application of the Subject ?  
Very Good  Good  Average  Poor

5. Does the teacher have clarity in his/her teaching?  
Very Good  Good  Average  Poor

6. Is the teacher sympathetic & helpful towards students?  
Very Good  Good  Average  Poor

7. Were the lessons/ Class on the whole effective?  
Very Good  Good  Average  Poor

8. Whether teacher is audible to the whole class?  
Very Good  Good  Average  Poor

9. Does the teacher help you regarding your doubts outside the classroom to the subject ?  
Very Good  Good  Average  Poor

10. Does the teacher give current information about the subject topic?  
Very Good  Good  Average  Poor

11. Do you feel the teacher has command over the subject?  
Very Good  Good  Average  Poor

12. Whether the teacher is on right time to the class?  
Very Good  Good  Average  Poor

13. Whether the teacher is prompt in completion of syllabus as per subject plan?  
Very Good  Good  Average  Poor

14. Whether the teacher regularly engages classes as per time table?  
Very Good  Good  Average  Poor

15. Whether teacher takes full class as per allotted time? (1 hour)  
Very Good  Good  Average  Poor



PES's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY  
FARMAGUDI, PONDA- GOA, INDIA, 403401.



### COURSE END FEEDBACK FORM

As part of Continuous Quality Improvement, your feedback is valuable

|               |   |  |
|---------------|---|--|
| PROGRAMME     | B.Pharm. <input type="checkbox"/> / M.Pharm. <input type="checkbox"/> |  |
| ACADEMIC YEAR | 20 <u>        </u> - <u>        </u>                                  |  |
| SEMESTER      | I / II / III / IV / V / VI / VII / VIII                               |  |
| COURSE CODE   |   |  |

| SR.<br>NO. | PARTICULARS   | FEEDBACK (Put ✓) |          |             |
|------------|---|------------------|----------|-------------|
|            |   | AGREE            | DISAGREE | NOT<br>SURE |
| 1.         | OUTCOMES FOR THE COURSE WERE CLEAR.                               |                  |          |             |
| 2.         | COURSE OUTCOMES MET THE COMPETENCIES AS PER THE COURSE CONTENT    |                  |          |             |
| 3.         | TIMELY COMPLETION OF COURSE CONTENTS                              |                  |          |             |
| 4.         | ACHIEVEMENT OF SET COURSE OUTCOMES                                |                  |          |             |
| 5.         | AVAILABILITY OF TEXT BOOKS/ STUDY MATERIAL                        |                  |          |             |
| 6.         | RELEVANCE OF COURSE CONTENT TO PRACTICAL ASPECTS                  |                  |          |             |
| 7.         | LECTURES CONDUCTED AS PER THE TIME TABLE                          |                  |          |             |
| 8.         | INTELLECTUAL STIMULATION BY COURSE CURRICULUM                     |                  |          |             |
| 9.         | THE COURSE CONTENT IS RELEVANT TO PROGRAMME OUTCOMES              |                  |          |             |
| 10.        | USEFULLNESS OF ASSIGNMENTS AND PRACTICAL DEMONSTRATIONS CONDUCTED |                  |          |             |

—————THANK YOU FOR YOUR PARTICIPATION—————



### 8.3 Feedback on facilities (5)

Total Marks 5.00

Institute Marks : 5.00

- Yes feedback pertaining to the facilities available is taken annually from students and is assessed.
- Based on the feedback corrective actions are taken which include betterment of facilities more accessibility of facilities.
- Principal and administrative staff regularly interact with students to address their problems and for additional improvements required.
- Based on the feedback corrective actions are taken which include betterment of facilities more accessibility of facilities.

| Year    | Requirements proposed   | Corrective Actions  |
|---------|---|---|
| 2018-19 | Improvement and access to computing and associated facilities | Xerox facility provided in library.   |
|         | Expansion of text & library collections                       | Procured additional numbers on the rack stock   |
|         | Better wash room and common room facility                     | Wash room and common room monitoring routine put in place.  |
|         | Improved internet facilities Computing facilities             | High speed LAN facility installed and University nominated IT professional to monitor the Computational facilities. |
| 2019-20 | Additional journal & reading material.                        | Subscribed additional journals & other reading material   |
|         | Additional text and reference books.                          | More number of text and reference books added to library collection   |
|         | Laboratory instrument and equipment requirement.              | Procured additional pH meters, weighing balances, instruments   |
|         | Sports equipment requirement                                  | Acquired new sports equipments  |

|         |   |   |
|---------|---|---|
| 2020-21 | Additional text and reference books.              | More number of text and reference books added to library collection                 |
|         | Laboratory instrument and equipment requirement.  | Procured additional sonicator, weighing balances, BP apparatus, instruments         |
| 2021-22 | Improved internet facilities Computing facilities | Procured additional number (27) of desktop PCs                                      |
|         | Laboratory instrument and equipment requirement.  | Procured additional hardness, tester, heating mantle, weighing balances instruments |
|         | Access to pantry                                  | Pantry provided on ground floor   |



PES's RAJARAM & TARABAI BANDEKAR COLLEGE OF PHARMACY  
FARMAGUDI, PONDA- GOA, INDIA, 403401.  
FEEDBACK FORM ON INFRASTRUCTURE AND FACILITIES



As part of Continuous Quality Improvement, your feedback is valuable as it helps us to develop and improve our standards on facilities and services.

|                                    |   |
|------------------------------------|---|
| Programme:                         | B.Pharm. <input type="checkbox"/> / M.Pharm. <input type="checkbox"/> |
| Year of Graduation/Post-graduation | 20  |

Please give a rating of your course on the following:

| SR. NO. | FACILITY                                   | FEEDBACK (Put ✓) |      |         |      |
|---------|--|------------------|------|---------|------|
|         |  | VERY GOOD        | GOOD | AVERAGE | POOR |
| 1.      | <b>CLASS ROOM</b>                          |                  |      |         |      |
| A.      | PC / PROJECTORS/OHP                        |                  |      |         |      |
| B.      | CLEANLINESS                                |                  |      |         |      |
| 2.      | <b>PRACTICAL LABORATORIES</b>              |                  |      |         |      |
| A.      | INSTRUMENTS                                |                  |      |         |      |
| B.      | APPARATUS                                  |                  |      |         |      |
| 3.      | <b>COMPUTER LABORATORY</b>                 |                  |      |         |      |
| A.      | NO. OF COMPUTERS/ CONNECTIVITY             |                  |      |         |      |
| B.      | AVAILABILITY OF SOFTWARE/ MAINTENANCE      |                  |      |         |      |
| 4.      | <b>LIBRARY</b>                             |                  |      |         |      |
| A.      | AVAILABILITY OF BOOKS /JOURNALS            |                  |      |         |      |
| B.      | TIMINGS                                    |                  |      |         |      |
| 5.      | <b>WASHROOMS &amp; DRINKING WATER</b>      |                  |      |         |      |
| A.      | CLEANLINESS/ ADEQUATE LIGHTING IN WASHROOM |                  |      |         |      |
| B.      | QUALITY OF DRINKING WATER                  |                  |      |         |      |
| 6.      | <b>MEDICAL</b>                             |                  |      |         |      |
| A.      | AVAILABILITY OF MEDICINES/ TIMINGS         |                  |      |         |      |
| B.      | AVAILABILITY OF FIRST AID                  |                  |      |         |      |

|     |  |  |  |  |  |
|-----|--|--|--|--|--|
| 6.  | MENTORING SYSTEM   |  |  |  |  |
| A.  | REGULARITY IN COUNSELLING  |  |  |  |  |
| B.  | MOTIVATION TO THE STUDENTS TO PARTICIPATE IN CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES |  |  |  |  |
| C.  | AVAILABILITY OF MENTOR   |  |  |  |  |
| 7.  | CANTEEN  |  |  |  |  |
| A.  | HYGEINE  |  |  |  |  |
| B.  | SERVICE/ TIMINGS   |  |  |  |  |
| 8.  | SPORTS FACILITY  |  |  |  |  |
| A.  | GYMKHANA   |  |  |  |  |
| B.  | PLAYGROUND   |  |  |  |  |
| 9.  | HOSTEL   |  |  |  |  |
| 10. | ATM SERVICES   |  |  |  |  |
| 11. | OVERALL IMPRESSION OF THE INSTITUTION  |  |  |  |  |

—————THANK YOU FOR YOUR PARTICIPATION—————

8.4 Self Learning (5)

Total Marks 5.00

Institute Marks : 5.00

- Our institution has a well facilitated library with good collection of books, technical magazines, scientific journals (national and international), e- journals, e-books and news papers to help students develop the habit of self-learning and learning beyond syllabus.
- Model question papers and study materials are available for their reference in the library.
- The institution is equipped with internet facility which is available for students streaming educational videos, e-journals and resources.
- Our students actively participate in community health, drug and environmental awareness programs (counseling health camps, blood donation camps, street plays) and activities of IPA.
- They attend various seminars, guest lectures, and workshops conducted by the college and other professional bodies.
- Intracollegiate event 'INSPIRE' is hosted every year which includes model making, poster presentation, elocution, quiz, video making competitions.
- They are actively involved in preparation of college magazine, brochures and presentations.
- The institution is equipped with a Computer Aided Drug Design facility.
- Pilot Plant facility is available to students for understanding the concepts of pharmaceutics and central instrument laboratory to know the handling of different instruments.
- Seminar hall, classrooms are provided with audiovisual aids which are utilized to undertake seminars and oral presentations.
- Adequately maintained medicinal plant garden.
- To enable learning beyond syllabus for UG students, college invites experts from industry to share their knowledge.
- The above facilitates self-learning process, generate scientific interest, academic discipline, improve innovativeness and strengthen the teaching learning process for the students.

**Self learning information beyond syllabus**

| Particulars                           | 2018                                  | 2019                                  | 2020                                  | 2021  |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|
| <b>Departmental library:</b>          |                                       |                                       |                                       |   |
| Total Books added                     | Titles :173<br>Volumes: 206           | Titles :237<br>Volumes: 341           | Titles :192<br>Volumes: 456           | Titles :78<br>Volumes: 459                                |
| Print Journal / Magazines/ Subscribed | 18                                    | 18                                    | 18                                    | 19  |
| E-journals subscribed                 | Delnet and Infotrac Subscription: 642 | Delnet and Infotrac Subscription: 642 | Delnet and Infotrac Subscription: 642 | Delnet and Infotrac Subscription: 393<br>IPC package: 442 |
| Newspapers Subscribed                 | 4                                     | 4                                     | 3                                     | 3   |
| <b>Guest lecture &amp; Workshops</b>  | 11                                    | 5                                     | 8                                     | 3   |

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

Total Marks 10.00

Institute Marks : 10.00

Training & Placement Cell (TPC) is to place the student in competitive good companies based on the merit of the individual student, identify areas of training & various methods as per the training requirement, formulate sequence of activities to meet the training schedules for appropriate placement. Dr Shilpa Bhilegaonkar and Dr Pearl Dhige are nominated as the placement coordinators, having good industrial and academic experience.

The Training & Placement Cell support students to develop their academic and career interests, and their short and long term goals through individual counselling and group sessions.

The Training & Placement Cell is also responsible in Organizing pre-placement training for students. The Placement and Training Committee objectives include:

- To improve the employability of students and to accommodate to the needs of the industry.
- To create a platform where the students can work towards accessing the skills required to get into industry.
- To bridge the gap between industry and educational institutions.
- To reinforce the students skills and acquire industry-specific knowledge from trained faculty and experts from industries.
- To provide motivation for entrepreneurship and arrangement of training.

#### 8.5.1 Functions of Career guidance training and placement cell

- To collect, circulate and display information from news papers, internet and contact sources on different job and career related advertisements.
- To organize guidance seminars, pre-placement talks, presentations on emerging professional trends, personality development, communication skills, interview skills and presentation skills.
- Arrange for interviews to provide them necessary facilities for Recruitment process
- To create consciousness about the importance of higher studies in India and abroad.
- To provide the training and information about model tests for various types of aptitude tests for the competitive exams such as GPAT, NIPER and competitive civil exams.
- Assist students in identifying their strengths, sharpening their interests and planning for a goal oriented future.

#### 8.5.2 Effectiveness of career guidance

| Title                    |                  | 2021      | 2020      | 2019      | 2018      |
|--------------------------|------------------|-----------|-----------|-----------|-----------|
| <b>Guest Lecture</b>     |                  | <b>1</b>  | <b>2</b>  | <b>1</b>  | -         |
| <b>GPAT Qualified</b>    |                  | <b>02</b> | <b>04</b> | <b>06</b> | <b>05</b> |
| <b>Higher Studies</b>    | <b>M.Pharm</b>   | -         | <b>41</b> | 38        | <b>29</b> |
|                          | <b>MBA</b>       | -         | <b>01</b> | -         | <b>02</b> |
|                          | <b>MS/Abroad</b> | -         | <b>01</b> | -         | <b>01</b> |
| <b>Placement support</b> |                  | <b>15</b> | <b>12</b> | <b>18</b> | <b>18</b> |

#### 8.5.3 Placement activities

**Total number of Interviews conducted (2018-2021)**

| Sr. No | Year  | Companies for campus         | Number of students placed |
|--------|-------|------------------------------|---------------------------|
| 1      | 18-19 | Apollo Pharmacy              | 03                        |
|        |       | Tevapharm India Private Ltd. | 02                        |
|        |       | Sanofi Aventis Pharma Ltd.   | 01                        |
|        |       | Unichem Laboratories Ltd.    | 02                        |
|        |       | Sun Pharma                   | 01                        |
|        |       | Centaur Pharma               | 02                        |
|        |       | Glenmark                     | 01                        |
|        |       | Cipla                        | 04                        |
|        |       | Cipla                        | 02                        |

|   |       |                           |    |
|---|-------|---------------------------|----|
| 2 | 19-20 | Unichem Laboratories Ltd. | 07 |
|   |       | Indoco Remedies Ltd       | 02 |
|   |       | Abbott India Ltd.         | 04 |
|   |       | Indocco Pharmaceuticals   | 01 |
|   |       | Encube ethicals           | 01 |
|   |       | micro labs                | 01 |
|   |       | Wellness Pharmacy         | 01 |
|   |       | Apollo Pharmacy           | 01 |
| 3 | 20-21 | DCI Pharmaceuticals       | 03 |
|   |       | Indocco Pharmaceuticals   | 02 |
|   |       | Vergo                     | 02 |
|   |       | Unichem Laboratories Ltd. | 01 |
|   |       | Wellness Pharmacy         | 01 |
|   |       | Bluecross labs            | 01 |
|   |       | Sanofi                    | 02 |
| 4 | 21-22 | Indoco Remedies Ltd       | 02 |
|   |       | Sanofi                    | 02 |
|   |       | Biomed ingredients        | 02 |
|   |       | Cipla                     | 07 |
|   |       | Unichem                   | 02 |

8.6 Entrepreneurship Cell (5)

Total Marks 5.00

The E-Cell was established with the support of experienced faculty of the institute Mr. Pankaj Gajare and with involvement of active and interested student.

- It focuses on inculcating the entrepreneurial culture into student minds and creating entrepreneurs from the institute.
- Its main objective is to prepare the platform for the students to take up the entrepreneurship as a career and create environment for innovation, self-employment and entrepreneurship development through various programs.
- On an overall perspective, E-cell has proven way to assist students in transforming their ideas into ventures at an early stage of their educational career.

#### 8.6.1 Students Success Stories:

##### List of Alumini who are successful entrepreneurs/ Self Bussiness owners

- Ms. Plautila Fernandes studied at our institution, and is the owner of St. Joseph Vaz Chemist and Druggist Pharmacy located in Benaulim Goa.
- Mr. Anish Helekar a dynamic and studious student with flair for entrepreneurship, an alumnus of our institution is the founder of Lifesworth Wellness, a neutraceutical marketing and distribution company based in Goa. They supply high calorie, high protein nutrition product under the brand name of Celnutra 2.0 to several individual Doctors, and Hospitals across Goa.
- Mr. Gaurang Prabhudessai, student of our institution, is the owner of Navhind pharmacy, located in Margao, Goa .It is one of the leading distributors of Pharmaceuticals with immense expertise in supplying vitamin and painkiller.
- Rahul Bhende an alumnus of our institution is the owner of Sudeep Medicals Ponda, Goa. It is one of the leading pharmacies in Ponda.
- Mr. Laximan Kavitkar, an alumnus of our institution is the owner of K Plus Formulation, Goa involved in wholesale and distribution business. K Plus Formulation employs 05 People. They are actively involved in supply a qualitative array of products that suit their diversified requirements of clients. He along with other experienced professionals made the enterprise in commendable position in highly competitive market.

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

Total Marks 10.00

Institute Marks : 10.00

The all-round development and proficiency of an individual is only possible through balanced development of scholastic as well as non-scholastic aspects in educational setups in the society.

The health and wellbeing of students is of primary concern and one way of ensuring this is by engaging students in co-curricular activities.

Here, the individual's involvement in the co-curricular activities becomes more significant because these activities stop various types of anxieties and stress in an individual. The co-curricular/extracurricular activities help the student to overcome the stress of academics and allow the holistic development.

The following co-curricular activities are undertaken:

- **Cultural Activities:** Departmental Forums organizes intra college level events i.e. quiz competition, some indoor/outdoor games, students seminars, fests, cultural events, etc. For every co-curricular activity the Institute has separate council to monitor the students co-curricular activities i.e. Sports Council and Cultural Council. These councils function throughout the whole academic year and assess the performance of the student and award cumulative 'General Proficiency'.Intracollegiate event 'RADICALS' is hosted every year which includes music, singing and dancing, dramatics and play, debating, photography, cooking, hair styling, mehendi competitions. Students also participate in the intercollege events.
- **Sports Activities:** Annual Sports Meet (Indoor/Outdoor) include Athletics, Field and Track, In-door and Out-door games . Also the students participate in the intercollege and state level sports activities as Badminton, Football, Cricket, Table tennis, chess etc.
- **Literary Activities:** Literary Writing, college Publications (i. e. Magazine)
- **National and International days** like Independence Day, Republic Day, as well as Teachers Day, Fresher's Day , Friendship day, Gandhi Jayati, Navratri, , Saraswati Puja are observed.
- **National pharmacy week:** Students under the guidance of staff actively participate in the drug and health related awareness programs and talks.

#### 8.6.3 Details of co-curricular & Extra-curricular activities:

##### Staff Incharges AY 2021-22

### CULTURAL COMMITTEES 2021-2022

| Sr. No. | Name of the Committee                                      | Members of the Committee From Teaching Staff                             | Members of Committee Non-Teaching Staff (Assistants ) | Members of Committee Non-Teaching Staff (Attendants) |
|---------|--|--|---|--|
| 01      | Student Election Committee                                 | Dr Nilambari ,Dr Pearl , Dr Mangirish                                    | NA  | NA   |
| 02      | Fresher's Party  | Ms Swati, Ms Gauri, Ms Ashwini, Ms Sarika                                | Ms Prassana, Ms Ameya                                 | All  |
| 03      | Inter/Intra College events or University events (Cultural) | Ms Saumya , Ms Gauri, Ms Chaitali  | Ms Atita  | All  |
| 04      | Inter/Intra College events or University events (Sports)   | Director of Sports & Physical Education , Mr Biradar                     | Ms. Brigita   | Mr Sunil, Mr Sandesh, Mr Gokuldas                    |
| 05      | Annual Day   | Dr. Godbole, Mr Sandesh Dr Leena , Dr Mangirish , Ms Sarika, Ms Kamakshi | All   | All  |
| 06      | Farewell Committee   | Dr Celina, Mr Biradar, Ms Ashwini  | Ms. Kirti<br>Ms Atita                                 | All  |
| 07      | Magazine Committee   | Dr Nilambari, Ms Kamakshi Mr Sandesh, Librarian                          | Ms.Brigita<br>Ms. Atita                               | Mr Gokuldas, Mr Sandesh, Mr Sunil                    |
| 08      | Public Perception  | Dr. Godbole , Dr Celina , Mr Sandesh , Ms Arti Ms Sarika                 | NA  | NA   |
| 09      | Publicity  | Dr Celina, Ms Kamakshi, Librarian  |   |  |
| 10      | Extramural Activities                                      | Mr Sandesh , Mr Pankaj, Mr Biradar                                       | -   | Mr Prakash   |

#### 8.6.4 Student Council members AY 2021-22

The following are the members of the Students' Council for the academic year 2021-22.

Teacher in charge:

1. Dr. Mangirish Deshpande
2. Dr. Pearl Dighe
3. Dr. Nilambari Gurav

**Students' Council Members:**

| Position              | Student Name                        |
|-----------------------|-------------------------------------|
| General Secretary     | Mast. Pawan Kumar Ravindra Bhandary |
| Cultural Secretary    | Mast. Ashvesh Atul Jadhav           |
| Sports Secretary      | Mast. Anish Mohan Sawaikar          |
| Magazine secretary    | Miss. Kumud Bongale                 |
| Ladies Representative | Miss. Priyanka Ramesh Morakar       |

**Class Representatives:**

| Class  | Student Name                    |
|--|---------------------------------|
| First Year B.Pharm                             | Mast. Piyush Mainekar           |
| Second Year B.Pharm                            | Miss. Akansha Dhavlikar         |
| Third Year B.Pharm                             | Miss. Simren Maryanne Fernandes |
| Final Year B.Pharm                             | Miss. Ishika Kurade             |
| First Year M.Pharm (Pharmaceutical Chemistry)  | Miss. Vaibhavi Dessai           |
| Second Year M.Pharm (Pharmaceutical Chemistry) | Miss. Vanessa Gracias           |
| First Year M.Pharm (Pharmaceutics)             | Miss. Shruti Xete Shirodker     |
| Second Year M.Pharm (Pharmaceutics)            | Miss. Shefali Phadte            |

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

Total Marks 100.00

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

Total Marks 50.00

**9.1.1 Governing body, administrative setup, functions of various bodies, service rules procedures, recruitment and promotional policies (10)**

Institute Marks : 10.00

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

1. Governing Body

**9.1.1.1 Governing Council till 19/02/2021**

1. Shri. Ravi S. Naik –President- (MLA, Ex. Chief Minister of Goa State)
2. Shri. Prakash Dharvatker –Vice-President
3. Shri. Ritesh R. Naik – Secretary
4. Shri. R. G. Dessai – Treasurer
5. Shri. Mahesh Nagarsekar –Executive Committee Member
6. Shri. Kishor Naik - Executive Committee Member
7. Shri. Datta Naik - Executive Committee Member
8. Smt. Urmila Lotlikar - Executive Committee Member

**9.1.1.2 Governing Council from 2021-2026 (5 years) from 20.02.2021**

1. Shri. Ravi S. Naik –President (**Hon'ble Minister of Agriculture, Handicrafts & Civil Supplies, Govt. of Goa**)
2. Shri. DattaNaik –Vice-President
3. Shri. Ritesh R. Naik – Secretary
4. Shri. Prakash Balve – Treasurer
5. Shri. Mahesh Nagarsekar –Executive Committee Member
6. Shri. KishorNaik - Executive Committee Member
7. Smt. UrmilaLotlikar - Executive Committee Member
8. Smt.PallaviPatil - Executive Committee Member
9. Shri. Hrishikesh P. Dharvatker - Executive Committee Member

**Functions and Responsibilities of the Governing Body**

The Governing Council of Ponda Education Society is the principal organization of management of the College. It is the compact and homogenous body enabling it promptly to take and implement well considered decisions and to effectively handle crisis situations.

**Responsibilities of the Governing Body:**

The Governing Council shall be the principal executive body of the College and shall, in addition to all powers vested in it have the following powers namely:

- To manage and administer the revenues and properties of the College and to conduct all the administrative affairs of the College not otherwise specifically provided for.
- To create teaching and academic posts, to determine number, qualifications and cadres thereof as approved by the Goa University.
- To appoint Professors, Associate Professors/Readers, Assistant Professors/Lecturers and other academic staff, as may be necessary, on the recommendation of the Principal.
- To lay down the duties and conditions of services of the Professors, Associate Professors, Asst, Professors and other academic staff maintained by the College.
- To consider for appointment of Visiting and Contractual faculties.
- To create administrative, ministerial and other necessary posts in terms of the cadres laid down or otherwise and to make appointment thereof in consultation with the Principal on need basis.
- To grant leave of absence to the Principal.
- To regulate and enforce discipline among the employees of the College and take appropriate disciplinary action, wherever necessary.
- To manage and regulate the finance, accounts, investments, property and all other administrative affairs of the College and for that purpose to appoint agent or agencies, as it may deem fit.
- To entertain and adjudicate upon and, if thought fit, to redress any grievances of the employees and students of the College.
- To select an emblem and to have a common seal for the Society and to provide for the custody and use of such seal.
- To grant institute Fellowships including Travelling Fellowships, Scholarships, Studentships, Medals and Prizes in accordance with the bye-laws framed for the purpose.
- To amend and receive payment of fees and other charges.
- To appoint Auditors for the ensuing year.
- To manage the finances, accounts, movable properties and all other administrative affairs of the College.
- To purchase, take on lease or accept as gift or otherwise any land or buildings or works which may be necessary or convenient for the purpose of the Society, and, on such terms and conditions as it may deem fit and proper and to construct or alter and maintain any such buildings or works.
- To provide building or buildings, premises, furniture, fittings, equipments, appliances and other facilities required for carrying out the work of the College.
- To maintain proper accounts and other relevant records and prepare Annual Statements of Accounts including the Balance sheet for every previous financial year, in such a form as may be prescribed by the regulations/Bye-laws.
- To constitute, schemes for the benefit of the College, teaching, academic, technical, administrative and other staff, in such manner and subject to such conditions as may be prescribed by the Bye-laws such as pension, insurance, provident fund and gratuity as it may deem fit for the benefit of the employees of the College.
- To establish, maintain and manage hostels for the students of the College as per the requirement.
- The Governing Council of PES is the principal executive body of the College and shall have the powers to take any additional necessary decisions for the smooth and efficient functioning of the College.

**Governing Council of Ponda Education Society Meeting Details**

| Year | Date of Meeting  | Number of Meetings | Quorum |
|------|--|--------------------|--------|
| 2018 | 06/01/2018<br>03/01/2018<br>07/04/2018<br>05/05/2018<br>02/06/2018<br>30/06/2018<br>21/07/2018<br>09/08/2018<br>01/09/2018<br>13/010/2018<br>03/11/2018<br>29/12/2018  | 12                 | Full   |
| 2019 | 19/01/2019<br>09/02/2019<br>18/02/2019<br>05/03/2019<br>20/03/2019<br>10/04/2019<br>04/05/2019<br>25/05/2019<br>08/06/2019<br>15/06/2019<br>29/06/2019<br>13/07/2019<br>03/08/2019<br>24/08/2019<br>19/10/2019<br>23/11/2019<br>14/12/2019 | 17                 | Full   |

|  |  |  |    |      |
|--|--|--|----|------|
|  | 11/01/2020<br>08/02/2020<br>15/02/2020<br>22/02/2020<br>13/06/2020<br>27/06/2020<br>2020<br>11/07/2020<br>08/08/2020<br>10/10/2020<br>07/11/2020<br>28/11/2020<br>06/12/2020<br>15/12/2020 |  | 13 | Full |
|  | 09/01/2021<br>20/02/2021<br>06/03/2021<br>10/04/2021<br>12/06/2021<br>2021<br>19/06/2021<br>26/06/2021<br>24/07/2021<br>14/08/2021<br>23/10/2021<br>13/11/2021                             |  | 11 | Full |

#### 9. Constitution & Function of Program Assessment Quality Improvement Committee (PAQIC)

##### 9.1.1.3 Constitution & Function of Program Assessment Quality Improvement Committee (PAQIC) (2016-2019)

###### Constitution

| Designation | Name   |
|-------------|--|
| Chairperson | Dr. S. N. Mamledesai (Principal)                   |
| Member      | Dr. Celina Nazareth (Senior Teacher)               |
| Member      | Ms. Suwarna Bobde (Academic Supervisor)            |
| Member      | Mr. Pankaj Gajare (Examination in-charge)          |
| Member      | Dr. Shilpa Bhilegaonkar (NBA Co-ordinator )        |
| Member      | Mrs Leena Sawaikar (Assistant NBA Co-ordinator)    |
| Member      | Mrs. Mayura Dharvatker (Office Representative)     |
| Member      | Ms. Prachita Gauns Dessai (Student Representative) |

**Constitution & Function of Program Assessment Quality Improvement Committee (PAQIC) (2019-2022)****Constitution**

| <b>Designation</b> | <b>Name</b>                                      |
|--------------------|--|
| Chairperson        | Dr. S. N. Mamledesai (Principal)                 |
| Member             | Dr. Celina Nazareth (Senior Teacher)             |
| Member             | Ms. Suwarna Bobde (Academic Supervisor)          |
| Member             | Mr. Pankaj Gajare (Examinations in-charge)       |
| Member             | Dr. Shilpa Bhilegaonkar (NBA Co-ordinator)       |
| Member             | Dr. Nilambari Gurav (Assistant NBA Co-ordinator) |
| Member             | Mrs. Mayura Dharvatker (Office Representative)   |
| Member             | Ms. Shefali Phadte (Student Representative)      |
|                    | Invitees as required                             |

**Functions**

1. To Frame policies and procedures that help to maintain an academic assessment process and implementation thereof.
2. To assist academic, examination and research units of other department with assessment pertaining to student learning and development.
3. To invite qualified personnel to enrich the deficient areas of teaching learning process for development of efficient teaching methodology.
4. Organization of inter or intra institutional workshops, seminars on quality related themes.
5. To assist in the purchase process with regards to books and journals, equipments, chemicals and solvents, and assist in framing the annual budget of the college.
6. Arrangement of feedback responses from students, parents and other stake holders on quality related institutional process.
7. Documentation of various programs/activities of the college leading to quality improvements.

**9.1.1.4 Internal Quality Assurance Cell (IQAC)**

- The IQAC was established in our College on 30<sup>th</sup> October 2013 as per Goa University circular SA 20 (C) (9).

**Composition**

| <b>Designation</b>          | <b>Name</b>             |
|-----------------------------|-------------------------|
| Chairman                    | Dr. S. N. Mamle Desai   |
| Member                      | Dr. Celina Nazareth     |
| Member                      | Dr. Shilpa Bhilegaonkar |
| Coordinator                 | Miss. Suwarna Bobde     |
| Senior Administrative Staff | Ms. Mayura Dharvatker   |

|                 |                     |
|-----------------|---------------------|
| External Member | Mr. Salim Veljee    |
| External Member | Mr. Sanjay Priolkar |

**Objectives:**

- To ensure quality of teaching learning skills, infrastructure and facilities.
- To interact with students, teachers and management to ensure co-ordination

for quality maintenance.

- The IQAC team analyzes and ensures if the facilities given to the students are adequate or not.
- IQAC team is always receptive to new ideas generated for improvement in the

quality of education and research.

**Functions**

- To prepare annual academic calendar of the institution
- To co-ordinate in the preparation of individual time table & lesson plan
- To conduct periodic meetings
- To facilitate the process of documentation
- To review students' progress and support services

**Dates of Meeting**

| Year    | Date of Meeting | No. of Internal members attended | No of External members attended |
|---------|-----------------|----------------------------------|---------------------------------|
| 2019-20 | 12/08/2020      | 11                               | 02                              |
| 2020-21 | 16/07/2021      | 09                               | 01                              |
| 2021-22 | 17/06/2022      | 09                               | 01                              |

**9.1.1.5 Research & Development Committee****R & D Committee (2018-19 onwards)****Constitution**

| Sl. No | Committee Members   | Designation                 |
|--------|---|-----------------------------|
| 1.     | <b>Dr. S.N. Mamledesai</b> , Principal & Professor Department of Pharmaceutical Chemistry                                   | Chairman                    |
| 2.     | <b>Dr. Shilpa Bhilegaonkar</b> , Assistant Professor of Department of Pharmaceutics   | Member                      |
| 3.     | <b>Mr. Bheemanagouda Biradar</b> , Assistant Professor Department of Pharmacology<br>Convener from 01.07.2018 to 01.09.2019 | Member                      |
| 4.     | <b>Mrs. Pearl Dighe</b> , Assistant Professor Department of Pharmaceutics   | Member                      |
| 5.     | <b>Dr. Nilambari Gurav</b> , Assistant Professor Department of Pharmacognosy  | Convener<br>From 02.09.2019 |

**Preamble:**

Research and development (R & D) is an integral part of any educational institution and is very essential in maintaining a quality of higher education. R & D aids teachers to meet the educational needs of students and society at large. Keeping this in view, PES's Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi has constituted a Research and Development Committee to design, assess and advice on all the matters related to the strategies involved in the implication of research activities. The committee facilitates building quality in student's education and training in terms of research. The committee aims at maintaining a beneficial and up-to-date research strategy keeping in view the current societal and global scenario.

**Objectives of the committee:**

1. To ensure the scientific and ethical quality of R & D Projects.
2. To ensure that the R & D program is in line with the research areas of thrust in recent times.
3. To ensure that the outcomes of the research activities undertaken will cater to the needs of the healthcare system and society at large.
4. To ensure the growth and overall development of students in research.

**Functions, Roles & Responsibilities:**

1. To oversee all research activities and ensure the effective operation of the research program.
2. To make appropriate recommendations to the Management based on the Committee's evaluation and oversight of the research program.
3. Each member needs to supervise the research facilities and ongoing research projects in their respective departments.
4. To plan and develop broad objectives of the research projects undertaken.
5. To assess the progress of the research project at regular time durations.
6. To determine the extent to which the R & D projects have met its objectives.
7. To suggest any recommended changes or improvements to be made in the ongoing research program.
8. To ensure the safety of research personnel in research laboratories.
9. To annually review the existing R & D programs, and to write a report of their progress and achievements of objectives in said time duration and research outcomes in the institution.

**R & D Committee meeting details:**

| Year    | Date of Meeting | Number of Internal members attended | Number of External members attended |
|---------|-----------------|-------------------------------------|-------------------------------------|
| 2018-19 | 23-09-2019      | 4                                   | Nil                                 |
| 2019-20 | 16-03-2020      | 4                                   | Nil                                 |
| 2020-21 | 13-07-2021      | 4                                   | Nil                                 |

**9.1.1.6 Library committee**

**Constitution**

| SL. No | Names   | Designation               |
|--------|---|---------------------------|
| 1      | Dr. S. N. Mamle Desai   | Chairperson               |
| 2      | Mrs. Prayangi Matonkar (till 05/10/2021)<br>Ms. Supriya S. Naik (from 03/01/2022) | Member Secretary          |
| 3      | Dr. A. M. Godbole   | Member                    |
| 4      | Dr. Celina Nazareth   | Member                    |
| 5      | Dr. Shilpa Bhilegaonkar   | Member                    |
| 6      | Mr. Mangirish Deshpande   | Member                    |
| 7      | Dr. Nilambari Gurav   | Member                    |
| 8      | Ms. Sweta Prabhu  | Student Member (B. Pharm) |
| 9      | Mast. Suresh Mandora  | Student Member (B. Pharm) |
| 10     | Miss Aneka Sangavkar  | Student Member (M. Pharm) |

**The duties of the committee are as follows:**

- i. To provide for proper improvement and modernization of the library, documentation services and updating the stock of books.
- ii. To provide for proper modernization and improvement of library and documentation services.
- iii. To recommend library fees and other charges for the use of library services by students and others.
- iv. To establish intra library loan service for the benefits of the faculty and students.
- v. To prepare annual budget and proposal for development of the library.
- vi. To procure books and journals including e-books and e-journals.
- vii. To allocate budget to the departments.

**Library Committee meeting details:**

| Year | Date of Meeting | Number of internal members attended | Number of external members attended |
|------|-----------------|-------------------------------------|-------------------------------------|
| 2019 | 08/11/ 2019     | 09                                  | -                                   |
| 2020 | 27/10/ 2020     | 07                                  | -                                   |
|      | 14/12/2020      | 08                                  | -                                   |
| 2022 | 14/03/ 2022     | 10                                  | -                                   |

**9.1.1.7 Institutional Animal Ethics Committee (IAEC)**

The Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) has accepted the following members recommended by the institution:

| SlNo. | Name of the IAEC Member         | Designation in the IAEC  |
|-------|---------------------------------|--|
| 1.    | Dr. S.N. Mamle Desai            | Chairperson  |
| 2.    | Dr. M.N Deshpande               | Member Secretary, Scientist in charge of Animal House facility |
| 3.    | Mr. B.S. Biradar                | Biological Scientist   |
| 4.    | Dr. Nilambari Gurav             | Scientist from different biological discipline                 |
| 5.    | Dr. Rajendra Hari Prabhugaonkar | Veterinarian   |

9.1.1.8 CPCSEA hereby nominated the following members to the IAEC of the institute:

| SlNo. | Name of the IAEC Member | Designation in the IAEC              |
|-------|-------------------------|--------------------------------------|
| 1.    | Dr. Vishnu Kangalkar    | Main Nominee                         |
| 2.    | Dr. Kartikeyan M        | Link Nominee                         |
| 3.    | Dr. Chandrashekhar K    | Scientist from outside the Institute |
| 4.    | Dr. Arvind Gulbake      | Socially Aware Nominee               |

**IAEC has been designed to secure the following objectives:**

- Every experiment shall be performed by or under the supervision of a person duly qualified in that field, that is, Degree holders in Veterinary Science or Medicine or Laboratory Animal Science of a University or an Institution recognised by the Government for the purpose and under the responsibility of the person performing the experiment;
- That experiments are performed with due care and humanity and as far as possible experiments involving operations are performed under the influence of some anaesthetic of sufficient power to prevent the animals from feeling pain;
- That animals who, in the course of experiments under the influence of anaesthetics, are so injured that their recovery would involve serious suffering, are ordinarily medically allowed to death while still under influence of anaesthetic;
- That experiments on animals are avoided wherever it is possible to do so.
- That experiments on larger animals are avoided when it is possible to achieve same results by experiments on small laboratory animals like guinea-pigs, rabbits, mice, rats etc.
- That, as far as possible, experiments are not performed merely for the purpose of acquiring manual skill;
- That animals intended for the performance of experiments are properly looked after before, during and after experiments;
- That suitable records are maintained with respect to experiments performed on animals

**Functions of IAEC**

As defined in "Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998"

"Institutional Animals Ethics Committee (IAEC)" means a body comprising of a group of persons recognized and registered by the Committee for the purpose of control and supervision of experiments on animals performed in an establishment which is constituted and operated in accordance with procedures specified for the purpose by the Committee;

The primary duty of IAEC is to work for the achievement of the objectives as mentioned above. IAEC should focus mainly on ensuring ethical and methodical handling of animals during and after experiments, so that they have less suffering.

IAEC will review and approve all types of protocols for research involving small animal experimentation before the start of the study. For approval of experimentation on large animals, the case is required to be forwarded to CPCSEA in prescribed manner with recommendation of IAEC.

IAEC is required to monitor the research throughout the study and after completion of study, IAEC shall obtain the periodic reports on research development and shall ensure visit to animal house facility and laboratory where the experiments are conducted. The committee has to ensure compliance with all regulatory requirements, applicable rules, guidelines and laws.

**IAEC Meeting details**

| Year | Date of Meeting | Number of internal members attended | Numbers of External members attended |
|------|-----------------|-------------------------------------|--------------------------------------|
| 2022 | 15/01/2022      | 5                                   | 3                                    |
| 2021 | 10/07/2021      | 5                                   | 3                                    |
| 2020 | 18/02/2020      | 5                                   | 3                                    |
| 2019 | 24/04/2019      | 4                                   | 2                                    |
| 2018 | 31/01/2018      | 5                                   | 3                                    |
|      | 14/01/2018      | 5                                   | 3                                    |

|      |             |   |   |
|------|-------------|---|---|
| 2017 | 28/01/ 2017 | 5 | 1 |
|------|-------------|---|---|

#### 9.1.1.8 ANTI DESCRIIMINATION CELL

##### Committee Composition

1. Ms. Sangeeta Gaonkar - Chairperson
2. Mr. Gokuldas Gaonkar - member
3. Mrs. Amita Priolkar - member
4. Mrs. Siya Gaudé - member
5. Mr. Suryakant Gaudé - member

##### Objectives of the Committee:-

The Committee has been constituted in accordance with UGC Regulations 2012 (Promotion of equality in higher educational Institutions & Grievances Redressal). The Committee members mentioned above have to look after the students & staff matters pertaining to discrimination.

The cell will look into the matters like discrimination a student or group of students on the basis of caste, creed, religion, language, ethnicity, gender, discrimination of access etc.

The cell will try to safeguard the interest of the students & staff without any prejudice to their caste, creed, religion etc. and eliminate discrimination against a harassment of any student in all forms, as well as to promote equality among students of all sections, the sovereignty at PES's Rajaram & Bandekar College of Pharmacy.

#### ANTI DISCRIMINATION CELL

| Year | Date of Meeting | No. of Members Attended | Cases Reported |
|------|-----------------|-------------------------|----------------|
| 2018 | 05/07/ 2018     | 05                      | Nil            |
| 2019 | 17/07/ 2019     | 05                      | Nil            |
| 2020 | 22/07/ 2020     | 04                      | Nil            |
| 2021 | 12/07/ 2021     | 04                      | Nil            |

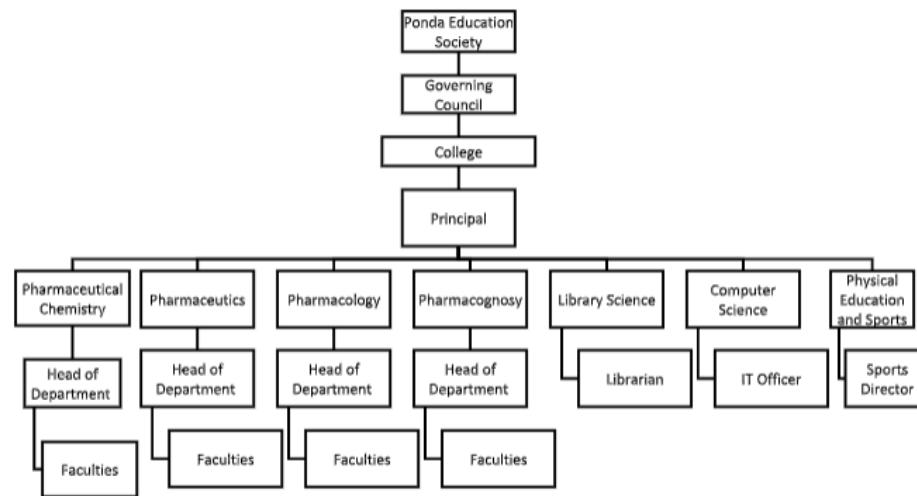
#### 9.1.2 Decentralization in working and grievance redressal mechanism (15)

Institute Marks : 15.00

#### 9.1.2. Decentralization in working and Grievance Redressal Mechanism (15)

##### Decentralization in working

### Structure of academic and administrative governance



### Grievance Redressal Committee

| Sr. No. | Name                    | Designation                         |
|---------|-------------------------|-------------------------------------|
| 1       | Dr. S. N. Mamle Desai   | Principal (Head of the Institution) |
| 2       | Mr. A. M. Deshmukh      | Ombudsperson                        |
| 3       | Dr. Pearl Dighe         | Senior Teacher                      |
| 4       | Dr. Mangirish Deshpande | Senior Teacher                      |
| 5       | Ms. Soniya Phadte       | Senior Teacher                      |
| 6       | Mast. Harsh Patel       | Student Member (B.Pharm)            |
| 7       | Miss. Larissa Gomes     | Student Member (M.Pharm)            |

### **Grievance Redressal Mechanism**

The students are the primary stakeholders in any educational institution, and it is our responsibility to ensure transparency in all activities. The grievances mainly encompass the following complaints of the aggrieved students-

- **Academic grievances:** Related to charging of fees, attendance, teaching methods, completion of syllabus, examination, assessment and grievances related to victimization
- **Non-academic grievances:** Harassment by students/colleagues/teachers, complaints regarding classroom management

Complaints by the students, parents or teachers can be made orally, in writing to the Principal/staff or through the online grievance redressal system / mechanism. Link is [www.pespharma.com/grievance/](http://www.pespharma.com/grievance/) (<http://www.pespharma.com/grievance/>)auth/login from 26/02/2019. The complaint is resolved by discussing with the committee members and then the appropriate corrective measures are taken.

### 9.1.3 Delegation of financial powers (15)

Institute Marks : 15.00

#### 9.1.3 Delegation of Financial Powers (15)

The authority for utilizing the budgetary allocation of funds is given to the Head of the institution. The Management of Ponda Education Society is responsible for deciding the budget allocation. The budget involves utilization of funds for maintenance, purchase of equipments, consumables and other miscellaneous expenses. The Management examines the requirements submitted by the institution and the approvals are given with or without modifications. In case there is a need for additional funds other than the budgetary allocation, the Head of the institution will have to request Management of Ponda Education Society. Based on the requirements all Head of Departments and conveners are made aware of financial budget allocation and utilization of allotted money.

| Year | Date of Meeting | No. of members present |
|------|-----------------|------------------------|
| 2018 | 03/02/2018      | 8                      |
| 2019 | 09/02/2019      | 9                      |
| 2020 | 08/02/2020      | 7                      |
| 2021 | 20/02/2021      | 8                      |
| 2022 | 21-02-2022      | 8                      |

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

Institute Marks : 10.00

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

The College official website [www.pespharma.com](http://www.pespharma.com) (<http://www.pespharma.com/>) gives all information pertaining to College which are as follows:

1. Administrative Flow Chart and contact details
2. Approvals from all regulatory and statutory bodies
3. Mandatory Disclosures as per the directives
4. Online Grievance Redressal Mechanism
5. Link for Anti-ragging and Gender Sensitization Committee Grievances
6. Programmes offered and their eligibilities and Govt. approved Fee Structure, Academic details and facilities
7. Faculty- Department wise
8. Achievements – staff and students
9. Placement & Training
10. News Gallary

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

Total Marks 30.00

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 2021-2022**

|                       |       |        |   |                                       |               |                                    |                           |
|-----------------------|-------|--------|---|---------------------------------------|---------------|------------------------------------|---------------------------|
| Total Income 35660940 |       |        |   | Actual expenditure(till...): 26955104 |               |                                    | Total No. Of Students 355 |
| Fee                   | Govt. | Grants | Other sources(specify) Institutional Fees+ Cancellation Charges | Recurring including salaries          | Non Recurring | Special Projects/Anyother, specify | Expenditure per student   |
| 35318940              | 0     | 0      | 342000  | 19956298                              | 6998806       | 0                                  | 75929.87                  |

**Table 2 - CFYm1 2020-2021**

|                       |       |        |   |                                       |               |                                    |                           |
|-----------------------|-------|--------|---|---------------------------------------|---------------|------------------------------------|---------------------------|
| Total Income 19197225 |       |        |   | Actual expenditure(till...): 25417182 |               |                                    | Total No. Of Students 305 |
| Fee                   | Govt. | Grants | Other sources(specify) Cancellation Charges | Recurring including salaries          | Non Recurring | Special Projects/Anyother, specify | Expenditure per student   |
| 19182225              | 0     | 0      | 15000                                       | 19820054                              | 5597128       | 0                                  | 83335.02                  |

**Table 3 - CFYm2 2019-2020**

|                       |       |        |   |                                       |               |                                    |                           |
|-----------------------|-------|--------|---|---------------------------------------|---------------|------------------------------------|---------------------------|
| Total Income 26100805 |       |        |   | Actual expenditure(till...): 23463823 |               |                                    | Total No. Of Students 255 |
| Fee                   | Govt. | Grants | Other sources(specify) Institutional Fees+ Cancellation Charges | Recurring including salaries          | Non Recurring | Special Projects/Anyother, specify | Expenditure per student   |
| 25755500              | 0     | 0      | 345305  | 17342547                              | 6121276       | 0                                  | 92014.99                  |

**Table 4 - CFYm3 2018-2019**

|                       |       |        |   |                                       |               |                                    |                           |
|-----------------------|-------|--------|---|---------------------------------------|---------------|------------------------------------|---------------------------|
| Total Income 23371300 |       |        |   | Actual expenditure(till...): 21513854 |               |                                    | Total No. Of Students 246 |
| Fee                   | Govt. | Grants | Other sources(specify) Institutional Fees+ Cancellation Charges | Recurring including salaries          | Non Recurring | Special Projects/Anyother, specify | Expenditure per student   |
| 23073500              | 0     | 0      | 297800  | 14758025                              | 6755829       | 0                                  | 87454.69                  |

| Items                                  | 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 | Budgeted in 2018-2019 | Actual Expenses in 2018-2019 till |
|--|-----------------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------------|
| Infrastructure Built-Up                | 1270000               | 1238058                           | 740000                | 342644                            | 980000                | 539259                            | 745000                | 172205                            |
| Library                                | 675000                | 384169                            | 665000                | 221210                            | 485000                | 530866                            | 785000                | 128948                            |
| Laboratory equipment                   | 2400000               | 190157                            | 2000000               | 102518                            | 1000000               | 296527                            | 1000000               | 195909                            |
| Laboratory consumables                 | 2500000               | 1706982                           | 1600000               | 697106                            | 1500000               | 1042022                           | 1600000               | 1224697                           |
| Teaching and non-teaching staff salary | 32000000              | 22743337                          | 28000000              | 23719804                          | 24000000              | 20785880                          | 23400000              | 19350745                          |
| Maintenance and spares                 | 3680000               | 5331490                           | 3250000               | 5198924                           | 2580000               | 5518086                           | 1550000               | 5495453                           |
| R&D                                    | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 |
| Training and Travel                    | 300000                | 40517                             | 200000                | 57476                             | 260000                | 93388                             | 250000                | 86310                             |
| Miscellaneous expenses*                | 365000                | 546659                            | 508000                | 375000                            | 479000                | 363900                            | 410000                | 636034                            |
| Others, Administrative                 | 2160900               | 3075195                           | 1890900               | 2453006                           | 1951050               | 3517234                           | 2115250               | 5077340                           |
| <b>Total</b>                           | <b>45350900</b>       | <b>35256564</b>                   | <b>38853900</b>       | <b>33167688</b>                   | <b>33235050</b>       | <b>32687162</b>                   | <b>31855250</b>       | <b>32367641</b>                   |

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

Institute Marks : 10.00

Every year the Budget is allocated as per the needs of institution by taking into account the income and expenditure estimated for that particular financial year. The budgetary requirement for the academic year is prepared in the month of December/ January every year and is approved by members of the governing council. Based on the estimated income of the institution, the budget under recurring, nonrecurring and miscellaneous are allotted for purchase of instruments, books, furniture, chemicals, glassware, equipment and other requirements. The requirements are discussed with the principal and sent to the management. Members of governing council approves the budgetary allocation by the month of February-March every year. The budget allocation is based on previous year expenditure, inflation and planned expenditure for next financial year. Additional expenditures on the basis of 5-10% increase in recurring expenditures are considered. Any unplanned or excess expenditure other than the allotted budget is done on instructions of management. On review of budget utilization, it is observed that budget utilization is nearly equal to (CFYm3) or mostly lower (CFYm2, CFYm1 and CFY) than budget allocated, proving the adequacy of the budget.

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

Institute Marks : 15.00

Details regarding the utilization of the allocated funds during the last three years are given below. The entire budget was utilized in all three years and whenever we exceeded the allotted budget, necessary approval was taken.

**Recurring Budget**

| Sr. No. | Financial Year | Funds Allocated | Funds utilized | % of utilization |
|---------|----------------|-----------------|----------------|------------------|
| 1       | 2018-19        | 25710000        | 21082893       | 82.00%           |
| 2       | 2019-20        | 26250000        | 22459295       | 85.56%           |
| 3       | 2020-21        | 30300000        | 24775068       | 81.77%           |
| 4       | 2021-22        | 35060000        | 24945373       | 71.15%           |

**Non-Recurring Budget**

| Sr. No. | Financial Year | Funds Allocated | Funds utilized | % of utilization |
|---------|----------------|-----------------|----------------|------------------|
| 1       | 2018-19        | 6130500         | 9651185        | 157.43%          |
| 2       | 2019-20        | 6971900         | 8744681        | 125.43%          |
| 3       | 2020-21        | 8572200         | 6996411        | 81.62%           |
| 4       | 2021-22        | 10101100        | 8748508        | 86.61%           |

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

Institute Marks : 5.00

Audited statements are not available on institutes website.

**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)**

The library has a collection of 8178 number of books, including reference books and textbooks for the benefit of students as a learning resource. Each student will be issued three textbooks for seven days and reference books are made available for use during the working hours. There is a book bank facility for SC and ST students for the entire term wherein two books per student are issued to them. The college has collection of e-books containing 63 titles. College has subscription to IPC package of e-journals of DELNET Consortium, where scientific journals can be accessed free of cost. College also has collection of 16 print versions of scientific journals. To update our students knowledge on day to day affairs and on sports news, we subscribe to three newspapers and one sports magazine. To upgrade our student's knowledge for competitive examination we subscribe to Competition Success Review magazine and for job opportunities, employment news is available on the shelf.

**9.3.2 Internet (10)**

Institute Marks : 10.00

|   |   |
|---|---|
| Name of the Internet provider   | BSNL  |
| Available band width  | 100 mbps  |
| WiFi availability   | No  |
| Internet access in labs, classrooms, library and offices of all Departments | Classroom, Library, Office, Faculty rooms, Auditorium and Conference room |
| Security arrangements   | No  |

**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**

Dr. Shivalingrao N. Mamle

Name : Desai

Designation : Professor and Principal

Signature :



Seal of The Institution :



**Place :** Farmgudi, Ponda-Goa.

**Date :** 23-07-2022 11:03:52

