

Pad. Dr. Vithalrao Vikhe Patil Foundation's  
**COLLEGE OF PHARMACY**

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Permanently Affiliated to Savitribai Phule Pune University, Pune  
Approved by A.I.C.T.E., P.C.I., New Delhi & Recognized by U.G.C., New Delhi.



Pad. Dr. Vithalrao Vikhe Patil Foundation's

**COLLEGE OF PHARMACY**

**"WE PHARMACISTS CARING THE PEOPLE GLOBALLY"**

# **SELF STUDY REPORT**

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION  
COUNCIL

BANGALORE – 560 072

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## INSPIRATION



Padmashree Dr. Vithalrao Vikhe Patil  
(29 August, 1901 – 27 April, 1980)

## FOUNDER & MENTOR



Hon. Dr. Balasaheb Vikhe Patil  
Padmabhushan Awardee  
Ex. Cabinet Minister, Govt. of India.

## MOTIVATOR



Hon. Namdar Shri. Radhakrishna  
Vikhe Patil  
Leader of Opposition,  
Maharashtra Legislative Assembly,  
Government of Maharashtra

## GUIDE



Hon. Dr. Sujay Radhakrishna Vikhe  
Patil  
Chief Executive Officer



Lt. Gen. Dr. B. Sadananda (Retd.)  
Secretary General

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PADMASHREE DR. VITHALRAO VIKHE PATIL FOUNDATION'S  
**COLLEGE OF PHARMACY**

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Ref. No. : Coph/Esstt.-NAAC/2015/ 542

Date : **23 APR 2015**

To,  
**The Hon. Director,**  
National Assessment and Accreditation Council (NAAC),  
Post. Box No. 1075, Nagarbhavi,  
**Bangalore-560 072. (India).**

From :  
**The Principal,**  
Pad. Dr. Vithalrao Vikhe Patil Foundation's  
College of Pharmacy, Vilad-Ghat,  
**Ahmednagar-414 111 (M.S.).**

**LOI Tracking ID No.: MHCOGN23164**

**Subject:-Submission of Self Study Report of Pad. Dr.**  
**Vithalrao Vikhe Patil Foundation's College of**  
**Pharmacy, Vilad-Ghat, Ahmednagar (M.S.).**

Respected Sir,

Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad-Ghat, Ahmednagar is rendering education to the students of rural area of Ahmednagar District since 1994. As such we would like to volunteer for the accreditation of our institute by NAAC, the apex body of educational excellence.

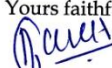
I hereby submitting five hard and soft copies of Self Study Report for your kind consideration and also extend a warm invitation to visit our College.

Thanking you,



**Encl** : - As above.

Yours faithfully,

  
**(Prof. Dr. P.Y. Pawar)**  
Principal  
College of Pharmacy,  
Ahmednagar.

**Pad. Dr. Vithalrao Vikhe Patil Foundation's  
College of Pharmacy, Vilad-Ghat, P.O. - M.I.D.C. Area,  
Ahmednagar**

**NAAC STEERING COMMITTEE**

<b>Sr. no.</b>	<b>Name</b>	<b>Designation</b>
<b>1.</b>	Prof. Dr. R. L. Sawant	Coordinator
<b>2.</b>	Prof. Dr. S. Z. Chemate	Member
<b>3.</b>	Prof. A. P. Deshpande	Member
<b>4.</b>	Prof. K. N. Tarkase	Member
<b>5.</b>	Prof. Ms. J. B. Wadekar	Member
<b>6.</b>	Prof. A. W. Ambekar	Member
<b>7.</b>	Prof. B. V. Bhagat	Member



## PREFACE

Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy has a very humble beginning in 1994 with the words "***We Pharmacists Caring the People Globally***" situated at Vilad ghat, Ahmednagar city (Maharashtra State, India) as a part of Padmashri Dr. Vithalrao Vikhe Patil Foundation. Latter the college went from strength to strength and has reached this stage, since its inception to the high pinnacles of success it has achieved in different fields.

The college strives to keep abreast with the latest technological advancement and provides a learning environment to the students to grow and make significant contributions in the Pharmacy profession. The college shall continue to endeavour in creating competent Pharmacrat which shall contribute for a better and healthy society.

With the changing scenario in the field of technical education the college has always been enthusiastic to explore the frontiers of knowledge to meet the challenges and demands of tomorrow. The college is continuously involved in organizing the quality improvement programs through availing funds from various agencies and even self financed also. These events have covered thrust areas like Clinical Trials, Drug Design Techniques, Quality Assurance and Pharmaceutical Regulatory Affairs, Lead Molecules from Natural Product, Experimental Pharmacology, Pharmaceutical Quality by Design and Development, Generic Product Development, Computational Chemistry in Anticancer Drug Research, Pharmaceutical Product Development and Technology Transfer.

We create the success story by tapping the individual's inherent strengths, eliminating weaknesses, arming him with outstanding skills and placing him in the world of opportunities. It is our noble objective to prepare the young generation for the challenges of tomorrow.

Faculty is the goodwill of the college and we are having twenty six full time qualified faculty with University recognized Ph. D. guides and P.G. teachers. We have five Ph.D. qualified faculty and remaining faculty are pursuing their Ph.D. research. All the staff members ensures efficient knowledge inputs to the students through good teaching practices like continuous assessment through sessionals, personal counseling and mentoring, remedial and tutorial classes, assignments, guidance for research project competition, paper presentation in seminars, minor research project and paper writing. It is a matter of pride that till date we have received grants from several funding agencies under research promotion scheme, quality improvement program and development grant. One major and ten minor research projects have been successfully completed in our college under different faculty members from various departments. As on date 286 research papers have been published by our faculty in various national and international journals of repute, four books and one patent are in the credit of our faculty. Even our students represent college by participating in various research paper presentation competitions & conferences and secured best paper awards.

We are a well-established organization, offering quality technical education in the nurturing environment with modern methodology. Our institution has been set up to meet the requirement of current scenario. Our pharmacrat must do the best for building a strong and vibrant India. All the facilities that are required for the best educational hub are made available to impart quality training to students to enable them to discharge responsibilities in the corporate world.

The college has well developed infrastructure, spacious and ventilated classrooms, well-equipped laboratories, sophisticated instrument facility; CPCSEA approved animal house facility, computer centre. There are 18 well equipped laboratories with sophisticated instruments. Library and reading room is heart of institute. Our library is stacked with 13000 books, journals, periodicals and e-journals with a pleasant air-conditioned reading room.

In this mission of excellence, the institution has been honored by the visits of eminent personalities from industry and academia, few amongst them are, **Dr. Mandar Kodgule**, Senior Vice President, Global IP and Strategic planning, Wockhardt Ltd.; **Dr. Manish Purohit**, Senior Group Leader, Global IP and Strategic Planning, Wockhardt Ltd.; **Dr. Abhijit Roy Chaowdhary**, Piramal Life Sciences Ltd.; **Dr. Jayant Khandare**, Piramal Life Sciences Ltd.; **Dr. Sanjay Kumar**, Piramal Life Sciences Ltd.; **Mr. Nilesh Dagia**, Piramal Life Sciences Ltd.; **Dr. V.M. Kulkarni**, Professor Emeritus, Poona College of Pharmacy, Pune; **Dr. Evans Coutinho**, Bombay College of Pharmacy; **Dr. Vijay Khanna**, Dept. of Drug Chemistry, Ahmednagar College; **Dr. R.B. Ghooi**, Bicare Research Academy; **Dr. Mukund Atre**, Vice President, Formulation, Concept Pharmaceuticals; **Dr. K.R.S. Sambasiva Rao**, Head, Dept. of Biotechnology, Acharya Nagarjuna University; **Mr. Rajendra Bandgar**, Lupin Research Park; **Mr. Kedar Suvarnapatnaki**, Boehringer Ingelheim Ltd.; **Mr. Arun Salappa**, Group leader, R & D, Teva Pharmaceuticals; **Dr. Sanjay Boldhane**, Associate Director – Innovative Drug Delivery Research, Abbot Healthcare Pvt. Ltd.; **Mr. Nitin Deore**, Asstt. Commissioner, Food and Drug Administration, Ahmednagar; **Mr. Kumar Vaidya**, Tech. Assistant National AIDS Research Centre (NARI); **Anurag Khetan**, Manager – Human Resources, OmniActive Health Technologies; **Mr. Digambar Nigade**, Vice President – Quality Operations, Wockhardt Ltd.; **Dr. Shivdas Dhas**, Wockhardt Ltd.; **Mr. Rajesh Thorve**, Glenmark; **Mrs. Kanchan Pawar**, Senior Manager, TATA Consultancy Services; **Dr. R.P. Gude**, Scientific Officer “F”, Cancer Research Institute, Tata Memorial Centre; **Dr. D. Srinivasa Reddy**, Senior Scientist, CSIR-National Chemical Laboratory; **Dr. Sami Mukhopadhyay**, Principal Application Scientist, VLife Sciences Technologies; **Dr. Girish Kulkarni**, Founder-Director Snehalya; **Dr. Abhay Wagh**, Dy. Secretary, Higher and Technical Education, Maharashtra State, Mumbai; **Padmashree Dr. Tatyarao Lahane**, Dean, J.J. Hospital, Mumbai; **Dr. Anil Deshpande**, Advinus Therapeutics Pvt. Ltd.; **Mr. Bhausaheb Patil**, Quintiles, Landon (UK); **Shri. Pramod A. Naik**, Director, M.S.B.T.E., Mumbai; **Dr. V.M. Mohitkar**, Secretary, M.S.B.T.E., Mumbai; **Dr. Ravi Kumar**, Application Scientist, Schrodinger, Bangalore; **Shri. Akshay Khairnar**, Watson Pharmaceuticals; **Dr. Subhash Mehetre**, Director of Research, Mahatma Phule Krushi Vidyapeeth, Rahuri; **Prof. R.R. Khumbhar**, Psychologist, Sarada College, Ahmednagar; **Shri. Amol Kawade**, Edwise International Pvt. Ltd., Pune; **Shri. Amol Achrekar**, Anthropologist; **Dr. Satish Sonawane**, Oncologist; **Dr. Prakash Garud**, Oncologist; **Mr. P.D. Thorat**, Drug Inspector, Central Drugs Standard Control Organization; **Mr. Rajiv Kumar**, Elsevier and others/

As a part of social aspect the college celebrates world environment day, cancer day, pharmacist day by organizing blood donation camp, tree plantation, and cancer and AIDS awareness programs.



The college is set up with aim of imparting technical know-how to the students to make them competent professionals that can contribute for the upliftment of pharmacy profession and to improve public health.

Our journey is continued with a vision “*Serving society ethically through creating competent Pharmacrat*”.

## **PRINCIPAL'S MESSAGE**

I am very much pleased to present Self Study Report of Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad Ghat, Ahmednagar to National Assessment and Accreditation (NAAC), Bangalore.

From the very inception, Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, is known to be "a college with a difference" with distinct identity and disposition. It is well known for its all round excellence be it the well qualified and experienced faculty, world class infrastructure which includes state-of-art library having air-conditioned reading room along with access to international E-journals, Sophisticated Analytical Instrument Facility, Industrial Pharmacy or Machine room, CPCSEA approved Animal House; spacious, well ventilated and lighted class-rooms, and laboratories; modern audio-visual teaching aids equipped seminar hall for organizing seminars and for interaction with top class academicians and industry experts; state-of-art auditorium equipped with modern gazettes to arrange conferences and to celebrate various cultural events.

PDVVPF's College of Pharmacy provides a warm, stimulating, challenging and green environment conducive of development. It works closely with its stakeholders to provide quality of education through curriculum which is rigorous, thorough, challenging and proper blend of traditional with modern. The college has grown in strength from pillar to pillar and become one of the finest education institutions in pursuit of knowledge and excellence. During the last few years PG courses in four disciplines, viz., Pharmaceutical Chemistry, Quality Assurance Techniques, Pharmacology and Pharmaceutics have been introduced and also the college is recognized as a Research Centre by Savitribai Phule Pune University for Ph.D. program in Pharmaceutical Chemistry. College is permanently affiliated to Savitribai Phule Pune University, Pune, approved by All India Council for Technical Education (AICTE), New Delhi, Pharmacy Council of India (PCI), New Delhi and also recognized by University Grant Commission (UGC) under section 2(f).

Research activities have been more focused with subsequent growth in research projects, patents, publications, faculty development programmes, student's participation in national level best thesis award competition, participation in innovative research project competition "AVISHKAR" organized by University at state level. In my opinion, success should not be measured by the yardstick of these achievements only, but by our efforts to give the students wings of ambition, so that they can soar like falcons to touch the skies and look beyond geographical boundaries. We are happy to welcome you to the PDVVPF's College of Pharmacy campus.

## EXECUTIVE SUMMARY-THE SWOC ANALYSIS

Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad Ghat, Post MIDC, Ahmednagar has been established in 1994 and presently offering B. Pharm, M. Pharm. in four disciplines viz. Pharmaceutical Chemistry, Quality Assurance Techniques, Pharmacology and Pharmaceutics and also Ph.D. programme in Pharmaceutical Chemistry. College is permanently affiliated to Savitribai Phule Pune University, Pune, approved by All India Council for Technical Education (AICTE), New Delhi, Pharmacy Council of India (PCI), New Delhi and also recognized by University Grant Commission (UGC) under section 2(f).

The college has well developed infrastructure, spacious and ventilated classrooms, well-equipped laboratories, sophisticated instrument facility; CPCSEA approved animal house and computer centre. There are 18 well equipped laboratories with sophisticated instruments. Library and reading room is heart of institute. Our library is stacked with 13000 books, Journals, Periodical and e-journals with a pleasant air-conditioned reading room.

Our college is having twenty six full time qualified faculties with University recognized Ph.D. guides and P.G. teachers. We have five Ph.D. qualified faculty and remaining faculty are pursuing their Ph.D. research.

We at our college organize staff development programmes/seminars/conferences/workshops for overall development of faculty and students.

Our faculty and students participates in various curricular, co-curricular and extracurricular activities within and outside the campus.

Our college received financial support from various funding agencies for research projects and quality improvement programmes. Over 286 research publications, 01 patent and 04 books are at the credit of our college. Till today over 1000 graduates and 150 postgraduates passed out of college and are pursuing their career in India and abroad.

We have registered alumni association, active placement cell and excellent governance to cater the needs of stakeholders. Feedback from all stakeholders are obtained, analyzed and corrective measures are taken for the betterment of the college.

### Criterion I - Curricular Aspects

The college vision is serving society ethically through creating competent pharmacat. With a long tradition of imparting quality education, college is actively engaged in its mission of extending the frontiers of education beyond mere classroom teaching. The college is affiliated to Savitribai Phule Pune University, Pune and follows the curriculum prescribed by them. The faculty members always take lead in designing and framing of syllabus of graduate, postgraduate and Ph.D. programs. The course structure of the curriculum directly or indirectly fulfills the needs of community and develops the professional skills; enhance the thrust in research or emerging area, creativity in students. Industrial training, projects in industry, alumni meet also promotes employability of students. Faculty members of our college are always in regular interaction with industry, research bodies and civil society and the feedback given by them is conveyed to University during the Board of Study meetings for curriculum revision. The curriculum throws light on various emerging trends in the global pharmaceutical sector. The college conducts

various skill oriented programs to help the students in discovering self-potential and develop their hidden capabilities and also help students in deciding career option after completion of their graduation and post graduation. Soft skill enhancement course and computer literacy for the students are helpful to multi skill development including professional skill and competencies. Workshops, seminars and extension lectures with eminent experts as invited speakers are regularly held to keep the students abreast of the recent developments in pharmacy profession and to upgrade their knowledge. Anti-ragging committee, grievance redressal cell, training and placement cell and counseling members all work integratedly for the betterments of students. Enrichment of curriculum is done for making it socially relevant and/or skill oriented /knowledge intensive and meeting the emerging needs of students and other stakeholders. Institution follows an explicit policy and strategy for attracting students from other states, socially and financially backward sections and international students. The feedback mechanism at various levels has geared to identify the slow learners and arrange remedial measures. The feedback from stakeholders consulted with subject experts and industrialist who assist in a constructive restructuring of the curriculum to keep pace with recent trends. Various measures are undertaken in order to ensure effective implementation of curriculum. Feedbacks on various activities of the institution are collected regularly and are analyzed by the academic committee which helps in overall development of the institution.

### **Criterion II - Teaching-Learning and Evaluation**

College ensures publicity and fully transparency in the admission process of B. Pharmacy, M. Pharmacy and Ph.D. All admissions are done by competent authority assigned by government that is Directorate of Technical Education, Mumbai. Admissions are allotted as per merit and as per constitutional reservation for backward class category. College organizes induction program and staff-parent-students meet for freshers after commencement of academic year. Remedial and tutorial classes are conducted for disadvantaged sections of society, differently abled students and earn and learn scheme is implemented for economically disadvantaged students. College motivates and initiates the students about moral, ethical values and their citizenship role. College incorporated the principles of life style modification for students such as extracurricular, co-curricular activities, Indoor and outdoor sports arranged during course. College attends to the diverse health issues physically and mentally of staff and students by providing accidental insurance facility, free hospital facility and by arranging guest lectures on health issues. College plans and organizes academic calendar; teaching plan, course plan before the commencement of academic year and course objectives are explained to students. Extra efforts are taken by faculty to complete the curriculum within the stipulated time frame and calendar. College focuses on student's centric learning through interactive learning. College has policy to arrange and invite experts from different fields like academics, industry and allied to augment teaching learning activities. College has facilities to promote e-learning so as to transit from traditional classrooms into an e-learning environment. There is provision of mentor for each student to provide academic, personal and psycho social guidance. Innovative teaching method are adopted and implemented by the faculty to improve learning. Students are engaged in various research

activities to create a culture of instilling and nurturing creativity and scientific temper among the learners. College has mechanism to evaluate performance of teachers through feedback from students, parents and alumni. There is a structured mechanism for post graduate teaching learning process.

Appointment of faculty is through staff selection committee appointed by university. College provides various facilities and assistance to faculty to academically recharge and rejuvenate. College promotes and encourages faculty members to attend various professional development programmes. College has well defined career advancement policy for students through training and placement cell to improve and guide students for their career. The examination pattern and evaluation process is clearly described in the course structure. The examination and evaluation process is completely transparent. College follows guidelines stated by university for conducting examination and prevention of malpractice in examination.

### **Criterion III - Research, Consultancy and Extension**

In the era of stiff global competition, it is extremely vital to understand the importance of research. A promotion of research culture will not only add extensive knowledge and improve academic excellence but is also spurring innovation to improve health care. Being a reputed and recognized educational organization for higher learning and research we are committed to impart quality and value based education with a motto to spawn young pharmacists with a flare positive attitude. The college has a research committee to monitor the issues related to research and address the faculty and students to maintain the scientific temper. To reinforce culture of research and excellence among staff members and students college provide platform to interact with galaxy of renowned researchers and academicians. Faculty members and students in coordination with research committee and patent cell are encouraged and supported to submit research projects to various funding agencies, publish papers in national and international journals of repute and incline towards patentable research. Special attention is strived through college by doing collaboration with and providing consultancy services to various pharmaceutical organizations. Timely college entangles its staff and students to align and involve in various health related programmes to admonish for volunteer service and humanitarianism through its extension activities which fosters active citizens.

### **Criterion IV - Infrastructure and Learning Resources**

The approach of the college is to upgrade infrastructural facility to build-up the teaching learning environment. The college has sufficient number of classrooms, laboratories, tutorial rooms, common rooms, seminar hall and indoor and outdoor playground facility, canteen, Auditorium Hall and hostel. The Library with air conditioned reading room has enough numbers of books and journals along with e-resources for users. Library staff provides personal assistance to differently-abled persons in utilizing library facilities effectively. The feedback collected from the staff and students about library facilities, helps to improve the facility. College also have well developed IT facility, computer lab maintained by system administrators and lab assistants. College has an estate office/civil department headed by civil engineer for monitoring and regulating the maintenance of building, class room and laboratories. College provides sufficient fund through sanctioned budget for maintenance

and purchase of infrastructural facility. The college has sufficient electric supply with generator back up facility. Specialized facilities like machine room, CPCSEA approved animal house, classrooms with LCD facility, e-library with high-speed internet facility and other support services are also provided.

#### **Criterion V - Student Support and Progression**

College has a well framed system for student support and mentoring to counsel and encourage them to participate in various activities. College prospectus is published regularly which provides detail information regarding infrastructure, government scholarship schemes, extracurricular and co-curricular activities, training and placement activity of the college. College information is also available online on the website link <http://www.vikhepharmacynagar.com/>. Institution provides scholarships/freeships to the students available from different government bodies. The college provides a variety of support services to students from the weaker sections of society. The services provided includes healthcare and health insurance, skill development assistance to slow-learners, guidance to students regarding admissions, scholarships, educational loans, library/laboratory work, seminar presentations, project work, career enhancement, placements, students publications like journals, wall magazines and facility for differently-abled students. The female students are encouraged to participate equally in sports competitions as well as cultural events. The college has anti-ragging committee, grievances-redressal committee, sexual harassment control committee for welfare of students in terms of health and safety. The Training and Placement Cell provides adequate training and has connections with the pharmaceutical industry for placement of the students. College has a registered alumni association and our alumni are employed in India and abroad. The college provides necessary facilities to students to acquire significant learning experiences and to facilitate development and progression. The college facilitates vertical movement of students to a higher level of education and placement. Students are inspired to participate in conferences and technical fest to present their research and innovative thinking. The students are involved in various committee constituted for organizing conference, workshop, guest lectures at college. Students are encouraged to participate in innovative research project competition “Avishkar” organized by university at zonal, university and state level. The college has constituted student council as per Savitribai Phule Pune University guidelines. Students are involved in various committees like Anti-ragging Alumni, Cultural, Sports, Hostel, Medicinal Plants, Sexual Harassment Control, Museum and Organizing committee for seminars and conferences and modulate the college functioning for excellence.

#### **Criterion VI - Governance, Leadership and Management**

The college has a visionary and transformative leadership which has steered the college to its present iconic status. Management provides clear vision and mission of the institution. The effective governance, leadership and management are evident from its ever growing performance in imparting quality technical education. It is mainly because of the highly responsive compact management which gets constant inputs and feedback from the administrative and academic heads, alumni, faculties, students, and support



staff. The college is headed by the Principal who communicates with top leadership and management who are the source of final decision. He is assisted by the heads of departments and various committees along with faculty and staff. The college is governed by bodies like Governing Body and Local Managing Committee. They help in decision making and policy framing in a transparent manner for effective functioning of the college. All the departments enjoy the functional autonomy. Faculty meetings are conducted periodically and addressed by Principal in coordination with academic committee.

Regular meetings of Local Managing Committee, IQAC and heads of departments offer a platform to present and discuss the perspective plans of the college and helps in effective implementation of institutional policies. The Principal works closely with different committees created along with faculty and staff to offer effective leadership by setting values and participative decision-making process to coordinate the academic and administrative planning and implementation. The institution adopts quality management strategies in all academic and administrative aspects. The supportive management provides a host of statutory and non statutory welfare schemes for teachers and non-teaching staff. The management ensures professional development by motivating the faculty to undertake research activity with various research organizations. Professional competence of the staff is updated regularly. Mechanisms for regular performance appraisal of staff have been evolved to ensure academic excellence.

Finance and accounts department implements all tasks related to finance and accounting. The college has an established mechanism for mobilizing resources and ensuring transparency in the financial management of the institution. Any deficit in the annual budget is met by the management. The college also makes efforts to secure additional funds and grants from various agencies for research and development activities. The income and expenditure of the institution are subjected to regular internal and external audit.

Feedbacks are collected from all stakeholders and analyzed for the review of implemented quality policy. Academic audit to compare the academic performance of each department and institution is done on a regular basis.

Internal Quality Assurance Cell (IQAC) has been functioning as a quality sustenance measure. Regular meetings of IQAC and Heads of Departments help in effective planning and implementation of institutional policies. Regular review and progress assessment is done by IQAC.

### **Criterion VII - Innovations and Best Practices**

“Serve your students as you would have them to serve you,” successful organizations consistently combine this golden rule with their best efforts thereby contributing to development of Quality Pharmacy Professionals. Innovation is the authentication mark of our management to tackle several challenges in its long progress. New programmes of developing technology right from introduction of foundation it is innovation all through. Some of the innovations and best practices adopted in the college includes: Environmental Studies, Inculcating Professional Ethics and responsibility, representation of Alumni and Industrial expert in Board of Studies, conducting Faculty Development Programmes (FDPs) for the benefit of faculty members, organizing national and state level workshops, introducing Communication and Soft Skills/Technical Seminar/Comprehension as mandatory in the

curriculum, extensive use of ICT facilities in providing learning assistance and in governance (academic/administration), providing travel grant for student/staff, research fellowship, internal research funding for students and staff, energy conservation approaches, green computing, rain-water harvesting, waste-water recycling, prohibiting smoking and making a tobacco-free campus, maintaining the eco-friendly green campus. All these activities enabled the college to be one of the top institutes.

### **STRENGTHS**

- Pleasant, pollution free and close to nature location.
- Huge infrastructure with proper utilization of natural resources.
- Supportive management and committed for quality education.
- Highly qualified, experienced and dedicated faculty.
- Our faculty is a good resource for other institutes and involved in curriculum development activity of University.
- Ideal tuning between teaching and non teaching staff.
- Specious and well equipped laboratories with sophisticated facilities.
- Furnished computer lab with internet facilities.
- Automated and rich library with various books, journals, periodicals and E-journals.
- Air-conditioned reading room.
- Permanent affiliation and recognized Ph.D. research center of Savitribai Phule Pune University.
- Recipient of research grants from AICTE and Savitribai Phule Pune University.
- Excellent contribution in research through publications in national and international journals.
- Published books with national as well as international publishers.
- Recipient of development grants from various funding agencies.
- Organized state and national level seminars, workshops and faculty development programs.
- Efficient teaching learning system furnishing excellent results.
- Hostel and in campus free transport facilities to boys and girls.
- Financial support to the students through various schemes.
- Free medical facilities to the staff and students.
- Active placement cell.
- Sound alumni association.

### **WEAKNESS**

- Limited industry institute interaction.
- Little in campus placement.
- Poor number of patents for research.
- Due to rural background students admitted are weak in communication and soft skills.
- Non availability of pharmaceutical industry in home town.

### **OPPORTUNITIES**

- Establish industry institute interactions.
- Motivate patentable research.

- Facilitate interdisciplinary research.
- Revamp industry related consultancy services.
- Collaboration with national and international institutes.

### **CHALLENGES**

- Public awareness about the potential of pharmacist.
- Job placement of the students.
- Participation of industry in education.
- Maintain quality output in terms of students.
- Minimize gap between academic and commercial research.

## PROFILE OF THE INSTITUTION

### 1. Name and Address of the Institution:

<b>Name:</b>	Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad-Ghat, P.O. M.I.D.C. Area, Ahmednagar.	
<b>Address:</b>		
<b>City:</b>	Pin:414111	State: Maharashtra
<b>Website:</b>	vikhepharmacynagar.com	

### 2. For communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
<b>Principal/Dean/Director</b>	Prof. Dr. P.Y. Pawar	O: (0241) 2778044 R: 9422797692	8554990219 9422797692	(0241) 2778044	pawarpy2001@yahoo.co.in
<b>Vice Principal</b>	Prof. Dr. R.L.Sawant	O: (0241) 2778044 R: 9850150735	9850150735	(0241) 2778044	sawantrl@yahoo.com
<b>Steering Committee/IQAC Co-ordinator</b>	Prof. Dr. R.L.Sawant	O: (0241) 2778044 R: 9850150735	9850150735	(0241) 2778044	sawantrl@yahoo.com

### 3. Status of the Institution:

Autonomous College	--
Constituent College	--
Affiliated College	√
State University	--
State Private University	--
Central University	--
University under Section 3 of UGC (A Deemed to be University)	--
Institution of National Importance	--
Any other (specify)	--

### 4. Type of University:

Unitary	--
Affiliating	√

**5. Type of College:**

Ayurveda	--
Dentistry	--
Homoeopathy	--
Medicine	--
Nursing	--
Pharmacy	√
Physiotherapy	--
Siddha	--
Unani	--
Yoga and Naturopathy	--
Others (specify and provide details)	--

**6. Source of funding:**

Central Government	--
State Government	--
Grant-in-aid	--
Self-financing	--
Trust	√
Corporate	--
Any other (specify)	--

**7. a. Date of establishment of the institution: 11/06/1994**

**b. In the case of university, prior to the establishment of the university, was it a/an**

- i. Autonomous College Yes ☐ No ☐
- ii. Constituent College Yes ☐ No ☐
- iii. Affiliated College Yes ☐ No ☐
- iv. PG Centre Yes ☐ No ☐
- v. De novo institution Yes ☐ No ☐
- vi. Any other (specify) .....

Not applicable.

**c. In the case of college, university to which it is affiliated**

Savitribai Phule Pune University, Pune.

**8. State the vision and the mission of the institution.**

**Vision**

Serving society ethically through creating competent pharmacrat.

**Mission**

To impart indispensable technical know-how to the students to make them competent professionals that can contribute for the upliftment of pharmacy profession and to improve public health.

**9. a. Details of UGC recognition/subsequent recognition (if applicable):**

Under section	Date, month and year	Remarks
i. 2(f)*	02/03/2012	Recognition of college under section 2(f) of the UGC act 1956
ii. 12B*	NA	In process
iii. 3*	NA	NA

\* Enclose the certificate of recognition, if applicable.

**b. Details of recognition/approval by statutory/regulatory bodies other than UGC (MCI, DCI, PCI, INC, RCI, AYUSH, AICTE, etc.)**

Under clause	Section/	Day, Month and Year	Validity	Program/ institution	Remarks
i.	AICTE	04/06/2014	2014-15	Pharmacy	
ii.	PCI	21/06/2014	2015-16	Pharmacy	

(Enclose the Certificate of recognition/approval)

**10. Has the institution been recognized for its outstanding performance by any national/international agency such as DSIR, DBT, ICMR, UGC-SAP, AYUSH, WHO, UNESCO, etc.?**

Yes ☐ No ☒

If yes, name of the agency .....

date of recognition: ..... (dd/mm/yyyy)

nature of recognition .....

**11. Does the institution have off-campus centres?**

Yes ☐ No ☒

If yes, date of establishment: ..... (dd/mm/yyyy)

date of recognition by relevant statutory

body/ies:.....(dd/mm/yyyy)

**12. Does the institution have off-shore campuses?**

Yes ☐ No ☒

If yes, date of establishment: ..... (dd/mm/yyyy)

date of recognition by relevant statutory

body/ies:.....(dd/mm/yyyy)

**13. Location of the campus and area:**

	Location*	Campus area in acres	Built up area in sq. mts.
i. Main campus area	Rural	5 Acres	5791.25
ii. Other campuses in the country	--	--	--
iii. Campuses abroad	--	--	--

(\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, any other (specify))

If the institution has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.



**14. Number of affiliated/constituent institutions in the university**

Types of institutions	Total	Permanent	Temporary
Ayurveda	-	-	-
Dentistry	-	-	-
Homoeopathy	-	-	-
Medicine	-	-	-
Nursing	-	-	-
Pharmacy	01	Permanent	---
Physiotherapy	-	-	-
Siddha	-	-	-
Unani	-	-	-
Yoga and Naturopathy	-	-	-
Others (specify and provide details)	-	-	-

**15. Does the University Act provide for conferment of autonomy to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.**

Yes ☐ No ☒ Number

**16. Furnish the following information:**

Particulars	Number
a. Accredited colleges by any professional body/ies	--
b. Accredited course / department by any professional body/ies	--
c. Affiliated colleges	01
d. Autonomous colleges	--
e. Colleges with Postgraduate Departments	--
f. Colleges with Research Departments	--
g. Constituent colleges	--
h. University Departments	--
Undergraduate	
Post graduate	
Research centres on the campus and on other campuses	
i. University recognized Research Institutes/Centres	--

**17. Does the institution conform to the specification of Degrees as enlisted by the UGC?**

Yes ☐ No ☒

If the institution uses any other nomenclatures, specify.

**18. Academic programs offered and student enrolment: (Enclose the list of academic programs offered and approval / recognition details issued by the statutory body governing the program)**

Programs	Number of Programs	Number of students enrolled
UG	01	254
PG	04	76
DNB	--	--
Integrated Masters	--	--
Integrated Ph.D.	--	--

PharmD.	--	--
M. Phil.	--	--
Ph.D.	01	07
Certificate	--	--
Diploma	--	--
PG Diploma	--	--
D.M. / M.Ch.	--	--
Sub / Super specialty Fellowship	--	--
Any other (specify)	--	--
<b>Total</b>	<b>06</b>	<b>337</b>

**19. Provide information on the following general facilities (campus-wise):**

- Auditorium/seminar complex with infrastructural facilities Yes ☒ No ☐
- Sports facilities
  - \* Outdoor Yes ☒ No ☐
  - \* Indoor Yes ☒ No ☐
- Residential facilities for faculty and non-teaching staff Yes ☒ No ☐
- Cafeteria Yes ☒ No ☐
- Health centre Yes ☒ No ☐
  - \* First aid facility Yes ☒ No ☐
  - \* Outpatient facility Yes ☒ No ☐
  - \* Inpatient facility Yes ☒ No ☐
  - \* Ambulance facility Yes ☒ No ☐
  - \* Emergency care facility Yes ☒ No ☐
  - \* Health centre staff Yes ☒ No ☐
- Qualified Doctor Full time ☒ Part-time ☐
- Qualified Nurse Full time ☒ Part-time ☐
- Facilities like banking, post office, book shops, etc. Yes ☒ No ☐
- Transport facilities to cater to the needs of the students and staff Yes ☒ No ☐
- Facilities for persons with disabilities Yes ☒ No ☐
- Animal house Yes ☒ No ☐
- Incinerator for laboratories Yes ☒ No ☐

- Power house Yes ☒ No ☐
- Fire safety measures Yes ☒ No ☐
- Waste management facility, particularly bio-hazardous waste Yes ☒ No ☐
- Potable water and water treatment Yes ☒ No ☐
- Any other facility (specify).

**20. Working days / teaching days during the past four academic years**

	Working days				Teaching days			
Number stipulated by the Regulatory Authority	215	215	215	215	180	180	180	180
Number by the Institution	222	220	224	226	201	199	203	202

(‘Teaching days’ means days on which classes/clinics were held. Examination days are not to be included.)

**21. Has the institution been reviewed or audited by any regulatory authority? If so, furnish copy of the report and action taken there upon (last four years).**

No.

**22. Number of positions in the institution**

Positions	Teaching faculty						Non-teaching staff	Technical staff
	Professor	Asso. Professor/Reader	Assist. Professor	Lecturer	Tutor/Clinical Instructor	Senior Resident		
Sanctioned by the Government Recruited Yet to recruit	--	--	--	--	--	--	--	--
Sanctioned by the management/ Society or other authorized bodies Recruited Yet to recruit	06	01	19	--	--	--	21	07
Stipulated by the regulatory authority Cadre ratio Recruited Yet to recruit	--	--	--	--	--	--	--	--

Positions	Teaching faculty						Non - teaching staff	Technical staff
	Professor	Asso. Professor/Reader	Assist. Professor	Lecturer	Tutor /Clinical Instructor	Senior Resident		
Number of persons working on contract basis	--	--	--	--	--	--	07	--

### 23. Qualifications of the teaching staff

Highest Qualification	Professor		Asso. Professor /Reader		Assistant Professor		Lecturer		Tutor /Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
<b>Permanent teachers</b>	06	--	01	--	14	05	--	--	--	--	--	--
D.M./ M.Ch.	--	--	--	--	--	--	--	--	--	--	--	--
Ph.D./D.Sc./D. Litt/M.D./ M.S.	05	--	--	--	--	--	--	--	--	--	--	--
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)	01	--	01	--	16	05	--	--	--	--	--	--
AB/FRCS/FRC P/ MRCP/MRCS/ FDSRCS	--	--	--	--	--	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--	--	--	--	--	--
UG	--	--	--	--	--	--	--	--	--	--	--	--
<b>Temporary teachers</b>	--	--	--	--	--	--	--	--	--	--	--	--
D.M./ M.Ch.	--	--	--	--	--	--	--	--	--	--	--	--
Ph.D./D.Sc./D. Litt/M.D./ M.S.	--	--	--	--	--	--	--	--	--	--	--	--
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)	--	--	--	--	--	--	--	--	--	--	--	--
AB/FRCS/FRC P/ MRCP/MRCS/ FDSRCS	--	--	--	--	--	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--	--	--	--	--	--
UG	--	--	--	--	--	--	--	--	--	--	--	--
<b>Contractual teachers</b>	--	--	--	--	--	--	--	--	--	--	--	--

Highest Qualification	Professor		Asso. Professor /Reader		Assistant Professor		Lecturer		Tutor /Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
D.M./ M.Ch.	--	--	--	--	--	--	--	--	--	--	--	--
Ph.D./D.Sc./D. Litt/M.D./ M.S.	--	--	--	--	--	--	--	--	--	--	--	--
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)	--	--	--	--	--	--	--	--	--	--	--	--
AB/FRCS/FRC P/ MRCP/MRCS/ FDSRCS	--	--	--	--	--	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--	--	--	--	--	--
UG	--	--	--	--	--	--	--	--	--	--	--	--
<b>Part-time teachers</b>	--	--	--	--	--	--	--	--	--	--	--	--
D.M./ M.Ch.	--	--	--	--	--	--	--	--	--	--	--	--
Ph.D./D.Sc./D. Litt/M.D./ M.S.	--	--	--	--	--	--	--	--	--	--	--	--
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)	--	--	--	--	--	--	--	--	--	--	--	--
AB/FRCS/FRC P/ MRCP/MRCS/ FDSRCS	--	--	--	--	--	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--	--	--	--	--	--
UG	--	--	--	--	--	--	--	--	--	--	--	--

#### 24. Emeritus, Adjunct and Visiting Professors.

	Emeritus		Adjunct		Visiting	
	M	F	M	F	M	F
Number	--	--	--	--	--	--

#### 25. Distinguished Chairs instituted:

Department	Chairs
--	--

#### 26. Hostel

##### \* Boys' hostel

- i. Number of hostels 01
- ii. Number of inmates --
- iii. Facilities All facilities are available.

- \* **Girls' hostel**
  - i. Number of hostels 01
  - ii. Number of inmates 40
  - iii. Facilities All facilities are available.
- \* **Overseas students hostel** NA
  - i. Number of hostels
  - ii. Number of inmates
  - iii. Facilities
- \* **Hostel for interns** NA
  - i. Number of hostels
  - ii. Number of inmates
  - iii. Facilities
- \* **PG Hostel** NA
  - i. Number of hostels
  - ii. Number of inmates
  - iii. Facilities

**27. Students enrolled in the institution during the current academic year, with the following details:**

Students	UG	PG			Integr ated Mast ers	M. Phil	Ph.D.	Integr ated Ph.D.
		PG	DM	MCH				
	*M*F	*M*F	*M*F	*M*F	*M*F	*M*F	*M*F	*M*F
From the state where the institution is located	122 +128 = 250	43+3 1=74	--	--	--	--	05+02 =07	--
From other states	02+0 2=04	0+02 =76	--	--	--	--	--	--
NRI students	--	--	--	--	--	--	--	--
Foreign students	--	--	--	--	--	--	--	--
Total	254	76	--	--	--	--	07	--

\*M-Male \*F-Female

**28. Health Professional Education Unit / Cell / Department**

- Year of establishment .....
- Number of continuing education programs conducted (with duration)
  - \* Induction
  - \* Orientation
  - \* Refresher
  - \* Post Graduate

**29. Does the university offer Distance Education Programs (DEP)?**

Yes ☐ No ☒



If yes, indicate the number of programs offered.  
Are they recognized by the Distance Education Council?

**30. Is the institution applying for Accreditation or Re-Assessment?**

Accreditation ☒ Re-Assessment ☐  
Cycle 1 ☒ Cycle 2 ☐ Cycle 3 ☐ Cycle 4 ☐

**31. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4)**

Cycle 4: .....(dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 3: .....(dd/mm/yyyy), Accreditation outcome/Result .....

Cycle2:.....(dd/mm/yyyy), Accreditation outcome/Result .....

Cycle1:.....(dd/mm/yyyy), Accreditation outcome/Result .....

\* Enclose copy of accreditation certificate(s) and peer team report(s)

Not applicable.

**32. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.**

Not applicable.

**33. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

**IQAC** 16/09/2014 (dd/mm/yyyy)

**AQAR** (i) ..... (dd/mm/yyyy)

(ii) ..... (dd/mm/yyyy)

(iii) ..... (dd/mm/yyyy)

(iv) ..... (dd/mm/yyyy)

Any other relevant data, the institution would like to include (not exceeding one page).

## **CRITERION I: CURRICULAR ASPECTS**

### **1.1 Curriculum Planning, Design and Development**

#### **1.1.1 Does the institution have clearly stated goals and objectives for its educational program?**

Yes, the college has clearly stated goals and objectives for its educational programs.

##### **Vision**

Serving society ethically through creating competent pharmacist.

##### **Mission**

To impart indispensable technical know-how to the students to make them competent professionals, that can contribute for the upliftment of pharmacy profession and to improve public health.

##### **Goals and Objectives**

- To promote and enhance the quality of pharmacy education and make the student globally competent.
- To learn and acquire adequate knowledge and necessary skills to practice pharmacy profession.
- To impart the fundamental knowledge in the graduates to succeed in the field of Pharmacy.
- To inculcate professional and ethical responsibilities in the students as per Pharmaceutical jurisprudence.
- To impart value based education and develop winning personalities.
- To develop multidisciplinary approach, ethical attitude and skills like problem solving, critical thinking, effective communication and teamwork skills in the students.
- To make the teaching learning process more effective.
- To promote research in thrust areas.
- To motivate scholar development in order to maintain high quality and skills.
- To train the students as a health care providers and to serve the community through patient care.

#### **1.1.2 How are the institutional goal and objectives reflected in the academic programs of the institution?**

- The goal and objectives of college are reflected in the academic programs of the institution through the implemented curriculum. The subjects in the curriculum and the relative distribution of theory and practical set the tone towards educating students for achieving the desired goals. The college has developed well defined plans for effective and efficient implementation of curriculum at undergraduate and post graduate level.
- The academic calendar of the college represents various curricular activities planned during a year and are based on the University calendar.
- Students learn lesson in a disciplined and scientific atmosphere at the hands of highly qualified teachers.
- The institution's academic programs actively involve students in learning, challenge them to achieve high expectations, and provide them with appropriate and ongoing feedback about their performance based on regular class tests and sessional examination.

- Extra classes, remedial classes and tutorial classes are conducted regularly for slow learners besides regular classes to improve their performance.
  - The course files are prepared before commencement of the academic year/ semester monthly with teaching plan and lecture notes to run the system smoothly. These are duly checked by respective head of the departments.
  - Laboratory manuals are prepared and provided to the students to make the concepts clear.
  - The concept of enhancing soft skills is introduced which bridges the gap and ensures that our students are not only qualified professionals, but also well rounded citizens.
  - Students are subjected to industrial training, seminars, symposiums, workshop leading to enhancement of their research perspective, knowledge, competence and creativity.
  - The college encourages faculty to undertake research and there by recognizing their efforts by providing incentives, logistic support for research activities.
  - Students actively take part in various research activities of the college.
  - Seminars, conferences and workshops at state as well as national level are organized at the college where students participate and assist in event management also.
  - Faculty is provided with financial assistance to attend and present research paper in the outside world.
  - Special projects are given to advance learner.
  - Plans for a remedial action and strategies are devised to cover up the gaps in case the objectives are not being achieved.
  - Systematic documentation is maintained to review the outcomes of the curriculum such as record of attendance, tutorial class and remedial class.
- Thus the Institute's mission and vision addresses the needs of the society and the professional development of the students.

**1.1.3 Does the institution follow a systematic process in the design, development and revision of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).**

The curriculum implemented at the college is prescribed by Savitribai Phule Pune University which is revised from time to time. Our senior faculties are the members of Board of Study and syllabus committee who are involved in syllabus designing. Also few faculties are deputed to syllabus orientation program. The alterations, modifications, deletions and omissions are incorporated before final framework of curriculum by the Board of Study members in University. Various aspects like recent development in the field, academic, industrial and hospital trends, multi-skill development, development of creativity and originality, values and social factors are taken into consideration while designing curriculum.

**1.1.4 How does the curriculum design and development meet the following requirements?**

- **Community needs**
- **Professional skills and competencies**
- **Research in thrust / emerging areas**
- **Innovation**

- **Employability**

The course structure of the curriculum directly or indirectly fulfills the needs of community and develops the professional skills; enhance the thrust in research or immersing area, creativity and employability in students.

**Community needs:**

Role of Community Pharmacy in curriculum is to improve the professional standards of Pharmacy and encourage realization of the social aims of the profession as a part of public health. The community-based pharmacist is an expert in pharmaceutical care, pharmacotherapy and health promotion. He is a professional counselor to patients, other health care providers.

The role of hospital and clinical pharmacist is to enhance the safety and quality of all medicine related processes affecting patients of the hospital, analysis of population needs with regards to medicines, ways of administration, patterns of use and drugs effects on the patients, monitoring the therapy course and the patient's compliance with therapy.

The students will develop a sense of community responsibility by becoming aware of scientific issues in the larger social context. Environmental studies incorporate more of the social sciences for understanding human relationships, perceptions and policies towards the environment. Environmental scientists bring a systems approach to the analysis of environmental problem such as pollution, deforestation, soil erosion etc. It develops ability to work and learn effectively and constructively as a member of a team to develop awareness about environmental issues.

Environmental issues related to specific discipline for pharmacy course such as disposal of hospital waste, pharma industries waste, air handling in pharma industries and also maintenance of healthy environment in pharma industries are studied in the subject.

**Professional skills and competencies:**

Communication and soft skill development is core subject in First year B. Pharmacy syllabus. It develops the basic communication skills such as listening, speaking, reading, writing, improves body language, enhances self esteem, brings about creativity with proper goal and develops positive thinking in students. Enhancement of professional skill in students is achieved by seminar presentation. Practical related to computer applications like MS Office, email etc are conducted in First year under graduate course through Basic computer application subject in curriculum.

**Research in thrust:**

Research methodology, drug regulatory affairs and intellectual property rights are the core subjects in curriculum. It enables the student to present a good research proposal. It familiarizes the students with the nature of research and scientific writing. It empowers the students with the knowledge and skills they need to undertake a research project, explains about literature review, scientific paper writing and presentation. It develops an understanding of the ethical dimensions of conducting applied research in students. The clear information about the patent laws, intellectual property rights and drug regulation in India and abroad is gained by the students. Patent filing procedure in India, patent search and literature are discussed in detail. It develops skills, knowledge and competencies in candidate for the drug regulatory jobs.

**Innovation:**

In organic chemistry, medicinal chemistry and drug design the practical skills required for drug research are being taught.

Medicinal chemists play a crucial role in driving the drug discovery project and also involved in search for a new lead, improvement in the existing lead where knowledge of computer-assisted drug design is useful which is covered under above cited subjects in curricula.

Computer-based drug design is the innovative concept developed now a day. So molecular modelling software of VLife sciences is available in our college and handled by well experienced staff.

**Employability:**

In curriculum various subjects include some topics regarding current trends like New drug Delivery systems, Modern analytical techniques, herbal analysis in Pharmacognosy, IPR and patent, ISO, GMP, GLP, QBD and PAT etc. adds the knowledge regarding current demand of industries which increases their employability.

Industrial training, projects in industry also promotes employability of students. Alumni meet also helps the students being benefitted through the interactions with alumni where they share the experiences.

**1.1.5 To what extent does the institution use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the institution been instrumental in leading any curricular reform which has created a national impact?**

The University refers guidelines laid down by All India Council for Technical Education and Pharmacy Council of India during reforming of curriculum. The institute is affiliated to Savitribai Phule Pune University and follows the curricula as designed by University. However when there arises a need to redesign the curriculum, institute has always taken initiative for the same. Faculty members of our college who are the members of board of study have been actively involved in curriculum design, planning and implementation of course curriculum, rest of faculty members gives necessary suggestions as per the need to improve quality of curriculum.

**1.1.6 Does the institution interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the institution benefitted through interactions with the stakeholders?**

Faculty members of our college are always in regular interaction with industry, research bodies and civil society and the feedback given by them is conveyed to University during the Board of Study meetings for curriculum revision. The college is affiliated to Savitribai Phule Pune University and follows syllabus formed by University. The University has rights to frame the syllabus for its affiliated institutes keeping in view the syllabus prescribed by All India Council for Technical Education. The syllabus has been revised frequently to update subjects and topics to meet the demands of latest development and recent advances happening in the field of pharmacy.

**Table 1.1: Interaction with stakeholders**

Interaction with stakeholders	Benefits to college
<b>Interaction of our faculty with industry, research bodies and the civil society</b>	Interaction with industry experts during eminent lectures, seminars and conferences
	Faculty interaction during industrial visit, internships and on-job training for their projects
	Interaction with alumni in industry
	The staff and students interact with researchers while visiting various research institutes and attending seminars/conferences/Workshops/Orientation Programs/Refresher Courses

The views and suggestions of industry experts, research scholars, professionals and people's representatives in the society are incorporated in the curriculum to make it locally and globally relevant and to promote employability. All courses enable the students to plan research and also find placement easily. The institution organizes seminars / conferences / workshops on recent trends and motivates students for projects based on social needs and thereby promotes research.

### **1.1.7 How are the global trends in health science education reflected in the curriculum?**

The curriculum throw light on the below mentioned emerging trends in the global pharmaceutical sector.

#### **The Emerging Trends in Global Pharmaceutical Sector include:**

- Increase in focus on biotech-based drugs.
- Fewer new drug approvals, so it increases focus on the discovery and manufacturing of new drugs.
- Need of a strong growth in generic drugs.
- Patent expiration of a number of blockbuster drugs may challenge the growth of global pharmaceutical market in future.
- Instances of chronic disease are increasing.
- Governments are beginning to focus on prevention rather than treatment, so global focus is on developing effective vaccines.
- A growing global dependence on genetically-engineered medicine.
- Highly advanced biotech technologies known as gene therapies are slowly beginning to prove their ability to cure patients.
- Hospital and Clinical pharmacy is a new and yet unexplored discipline of pharmacy that has proven itself into a very promising part of patient care and service importance and necessity of this new role has been accepted and is very much in practice in USA and UK.

### **1.1.8 Give details of how the institution facilitates the introduction of new programs of studies in its affiliated colleges.**

Our college is affiliated to Savitribai Phule Pune University and various courses introduced since inception is listed below.



**Table 1.2: New programs of studies**

Sr. no.	Programs	Year of introduction
1.	Bachelor of Pharmacy	1994
2.	Master of Pharmacy in Pharmaceutical Chemistry	2008
3.	Master of Pharmacy Quality Assurance Techniques	2010
4.	Doctor of Philosophy in Pharmaceutical Chemistry	2011
5.	Master of Pharmacy in Pharmacology	2012
6.	Master of Pharmacy in Pharmaceutics	2013

**1.1.9 Does the institution provide additional skill-oriented programs relevant to regional needs?**

The college conducts various skill oriented programs which in turn will help students in deciding career option after completion of their graduation and post graduation. The basic aim of skill orientation program is to help in discovering self- potential and develop their hidden capabilities. Orientation program provides a wonderful opportunity and bigger platform to inculcate and reinforce positive attitudes, added values, behaviors, self-confidence, improving their skill sets in the areas of communication both verbal and non-verbal, building up leadership qualities, and overall personality development in order to get a head start in the field of pharmacy.

**Table 1.3: Skill-oriented programs organized in the college**

Resource person	Topic	Qualities developed
Dr. Arun Ingale	Leadership communication and interview techniques	Overall personality like dressing sense, hygiene, public speaking, eating habits, etiquettes etc. get developed in students
Prof. Ganesh Shinde	Soft skill and personality development	
Mr. Girish Kulkarni	Interview techniques	
Mr. P. D. Thorat	Career guidance in pharmacy	
Mr. Amol Acharekar	Personality development	
Prof. Anil Khandare	Soft skill and interview techniques	
Mr. Rajesh Chavan	Personality development	It helps the student to become tension free and enhances the confidence among the students
Mr. Pramod Karhad	Swami Vivekananda	
Prof. R. R. Kumbhar	Emotional intelligence	Preparation of students for competitive exams
Prof. Rajendra Patil	GPAT preparation	

**1.1.10 Explain the initiatives of the institution in the following areas:**

- \* **Behavioral and Social Science.**
- \* **Medical Ethics / Bio Ethics / Nursing Ethics.**
- \* **Practice Management towards curriculum and/or services.**
- \* **Orientation to research.**
- \* **Rehabilitation.**
- \* **Ancient scriptural practices.**
- \* **Health Economics.**
- \* **Medico legal issues.**

**\* Enhancement of quality of services and consumer satisfaction.**

**Table 1.4: Initiatives taken in various areas**

Area	Initiatives
<b>Behavioral and Social Science</b>	Student counselors are appointed
	Value education and personality development programs are conducted
	Vigilance committee and anti-ragging committee looks into the matters of conduct and discipline
	Student council body is established to develop leadership, social interaction as well as interpersonal skills
	Sports and cultural committees organize programs to develop holistic personality
	Encouragement to exercise civil rights motivational lecture are arranged for development with a moral values
<b>Medical Ethics/Bio Ethics/Nursing Ethics</b>	Research projects/Post Graduate thesis clearance is done by the ethical clearance committee
<b>Practice Management towards curriculum and/or services</b>	Participation in curriculum design and development
	Guides and examiners
	Member of Board of Study of other universities
	Guest speakers and resource persons
<b>Orientation to research</b>	Research methodology is one of the subjects taught at post graduate program.
	Students are motivated to take up research in emerging areas and to publish research and review papers in national and international journals present paper in conferences and seminars
	Special guidance lecture for post graduate entrance examination
	Initiated and guided for common entrance test for post graduate at NIPER, National level pharmacy aptitude test
	Various projects are carried out at under graduate and post graduate level
	Research is a mandatory activity of all the post graduate programs of the college. Research project submission/dissertation is mandatory for fulfillment of the degree and incorporated in the curriculum
	Various seminars, workshops, industrial tours are conducted throughout the year and students are motivated to attend the same for evolving their research perspective

	Students are encouraged to participate in innovative research project competition “Avishkar” at University level
<b>Rehabilitation</b>	The institute has a CPCSEA certified and approved animal house facility
<b>Enhancement of quality of services and consumer satisfaction</b>	Our college provides good hostel, classrooms, basic amenity facilities where students can flourish
	Anti-ragging committee, grievance redressal cell, training and placement cell and counseling members all work integratedly for the betterments of students
	ICT system is followed by institute to enhance teaching methodology
<b>Medico legal issues</b>	Pharmaceutical jurisprudence subject is included in syllabus so students get knowledge about laws related to drugs
	Free insurance coverage facility is provided to students

**1.1.11 How does the institution ensure that evidence based medicine and clinical practice guidelines are adopted to guide patient care wherever possible?**

The institute comes under pharmacy discipline so there is no direct clinical involvement but as clinical pharmacy is part of curriculum, awareness about guidelines that should be adopted as a pharmacist in patient care is covered in course.

**1.1.12 What are the newly introduced value added programs and how are they related to the internship programs?**

The institution arranges various value added programs to ensure holistic development of students.

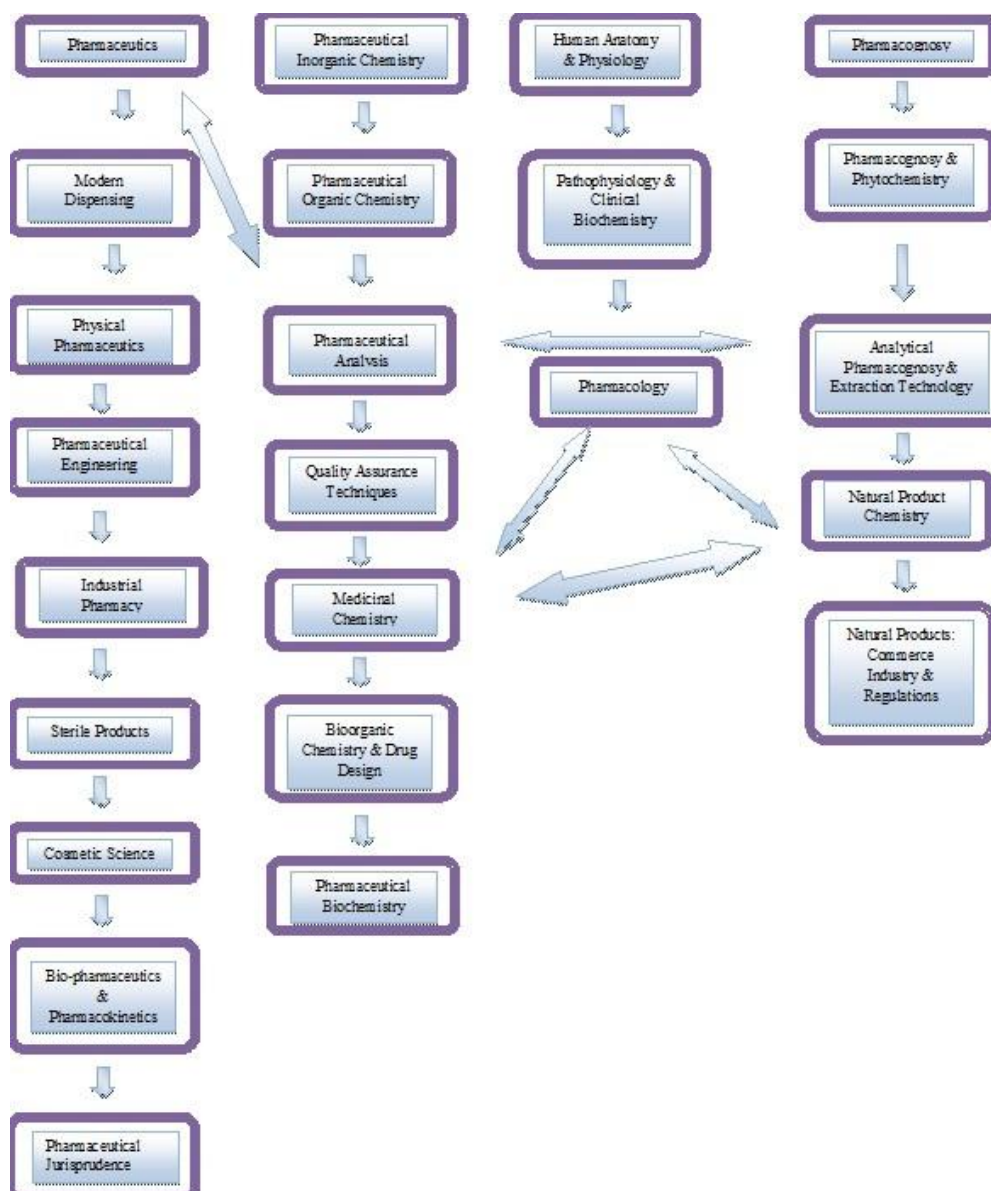
- Training and placement cell is introduced with noble aim of systematic program modules that increase the possibility of placement. With this students become career oriented and have vision for their future. This also helps in updating the knowledge of pharmacy and correlates their curricular knowledge with industry.
- Industrial training is mandatory to fill the gap between academic and industry. This helps the students to develop skills and competencies they require to become a good pharmacist. It provides an opportunity for students to apply theoretical knowledge acquired in the classroom with practical application. Industrial training also gives the students exposure to the tools used in the industry.

**1.1.13 How does the institution contribute to the development of integrated learning methods and Integrated Health Care Management?**

- \* **Vertical and horizontal integration of subjects taught.**
- \* **Integration of subjects taught with their clinical application.**
- \* **Integration of different systems of health care (Ayurveda, Yoga, Unani, Homeopathy, etc.) in the teaching hospital**

The pharmacy program under Savitribai Phule Pune University mainly includes various subjects like Medicinal Chemistry, Pharmaceutics, Microbiology, Pharmacology and Clinical pharmacy.

Sequence about the vertical dimension of Pharmaceutical science is from basic to advance level of its training in pharmacy, whereas horizontal dimension is about breaking down the departmental barriers to integrate the basic sciences discipline. The horizontal and vertical integration in our study curriculum provides students with a learning environment, which is consistent with principles of students centered, problem based and self, directed long life learning.



**Fig. 1.1: Vertical and horizontal integration of subjects taught**

#### 1.1.14 How is compatibility of programs with goals and objectives achieved with particular reference to priority of interface between Public Health, Medical Practice and Medical Education?

The pharmacy graduate is able to understand drugs and their effect on living things, know the right dosage of drugs and not just quantity, identify and

respond to drug interactions, reactions and side effects, understand the process of drug absorption, distribution, metabolism and elimination, identify the properties of ideal drugs, mechanism of drug action, the relationship between chemical structure and biological activity of substances.

The role of pharmacist is to ensure effective and safe use of drugs. Thus pharmacy profession is indirectly related to public health and medical education. Pharmacist is experts who have responsibilities to provide accurate medication solution and should have deep knowledge of various drug therapies in order to offer best and positive health outcome. To fulfill these needs, curriculum includes core subjects such as Medicinal Chemistry, Pharmacology, Pharmacognosy and Pharmaceutics that provides a source of knowledge such as drug interactions, mechanisms of action, adverse affects, and common side effects of medications, formulation study and medicines of natural origin.

The pharmacist contributes to the common goal of the healthcare field to reduce medical errors and maintain patient safety. The knowledge and application of pharmacology alerts enlighten the pharmacy technician and thus promote patient safety. Well trained pharmacist are able to effectively communicate with others involved in patient care physicians, nurses, radiologists, lab technicians, dieticians and food service workers, as well as patients and their families. Pharmacist helps physician to be well rounded and for daily work in the healthcare setting. Thus Pharmacist is an invaluable resource person who is indirectly focusing on patient care.

## 1.2 Academic Flexibility

### 1.2.1 Furnish the inventory for the following:

- \* **Programs offered on campus**
- \* **Overseas programs offered on campus**
- \* **Programs available for colleges/students to choose from**

<b>B. Pharm.</b>	<ul style="list-style-type: none"> <li>• It is a course of four years duration with industrial training as a part of curriculum.</li> </ul>
<b>M.Pharm.</b>	<ul style="list-style-type: none"> <li>• Pharmaceutical Chemistry</li> <li>• Quality Assurance Techniques</li> <li>• Pharmacology</li> <li>• Pharmaceutics</li> </ul>
<b>Ph.D.</b>	<ul style="list-style-type: none"> <li>• Doctor of Philosophy in Pharmaceutical Chemistry</li> </ul>

**Fig. 1.2: Programs offered on campus**

### 1.2.2 Give details on the following provisions with reference to academic flexibility

- a. **Core options**
- b. **Elective options**
- c. **Bridge course**
- d. **Enrichment courses**
- e. **Credit accumulation and transfer facility**
- f. **Courses offered in modular form**
- g. **Lateral and vertical mobility within and across programs, courses and disciplines and between higher education institutions**
- h. **Twinning programs**
- i. **Dual degree programs**

The college is affiliated to Savitribai Phule Pune University, Pune. The Institute follows the curriculum prescribed by University where all the subjects are core subjects under pharmaceutical sciences. University has designed the curriculum in consultation with subject experts which help our students to develop skills and improve knowledge for employability.

At postgraduate level institution has specialization in four disciplines (Pharmaceutical Chemistry, Quality Assurance Techniques, Pharmacology and Pharmaceutics) which includes core subjects such as Advanced Analytical Techniques, Research Methodology, Advanced Pharmaceutical Chemistry, Advanced Quality Assurance Techniques, Advance Pharmacology, Advance Pharmaceutics, Drug Regulatory Affairs, Sterile Product Formulation, Drug Design, Pharmaceutical Validation, Clinical Pharmacology, Molecular Pharmacology, Novel Drug Delivery System, Quality Planning Analysis, Advanced Medicinal Chemistry, Formulation and Development.

As per University course structure there is no elective option at under graduate level, where as the students admitted for post graduate course have elective options for semester one and semester two.

The curriculum is designed in such a way that core subjects are enriched by allied subjects computer science, statistical analysis, skill development which helps in progression to the higher studies. The college organizes seminars, workshops, conferences and poster presentation competitions to develop research attitude in students and also promote the students to attend such events organized outside the institution. The institution organizes industrial visit to expose students for latest trends and practices in industries.

As per the provision made by the Directorate of Technical Education students who passed in Diploma in Pharmacy with first class can be directly admitted laterally in Second Year Bachelor of Pharmacy.

### **1.2.3 Does the institution has an explicit policy and strategy for attracting students from**

- \* **other states,**
- \* **socially and financially backward sections,**
- \* **International students?**

As per the rules and regulations of Directorate of Technical Education Govt. of Maharashtra reservation is available for other than Maharashtra State, socially and financially backward candidates.

- Special admission quota is available with fee concession for economically backward class.



- Publicity is through the institution website, advertisements, visit to various colleges, classes that gives brief information about the government scholarship, course and the institute facilities.
- From academic year 2013-2014 the Directorate of Technical Education, Govt. of Maharashtra decided to conduct separate online entrance examination (MH-CET-2014) for admissions to all Pharmacy degree courses in state of Maharashtra, for this awareness amongst the students and parents is done by the college at different levels by media publicity namely radio, cable advertisement and hoardings.
- Personal care, guidance and counseling to look after the student from other states and financially backwards students. All kind of assistance and guidance is provided for government scholarship scheme and education loan issues.
- A Book bank facility is also available for economically backward students such as SC/ST under government aided schemes.
- In this process, it may happen that some students may not be able to pay the full fees at a time; such students are allowed to pay the fee in installments.
- Earn and Learn Scheme is implemented by Institute.

**1.2.4 Does the institution offer self-financing programs? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programs?**

Ours is a self-financing institute offering B. Pharmacy, M. Pharmacy and Ph. D. programs. The college is affiliated to Savitribai Phule Pune University and follows the guidelines lead down by AICTE and PCI. For B. Pharmacy and M. Pharmacy program admissions are through centralized admission process (CAP) as per the rules and regulations of Directorate of Technical Education Govt. of Maharashtra. Admissions for Ph.D. programs are made as per the rules and regulations of Savitribai Phule Pune University.

Fee Structure is stipulated by “Shikshan Shulk Samity” constituted by Govt. of Maharashtra.

Teacher’s qualification and salary are as per AICTE, PCI, Savitribai Phule Pune University and Govt. of Maharashtra norms.

**1.2.5 Has the institution adopted the Choice Based Credit System (CBCS) /credit based system? If yes, for how many programs? What efforts have been made by the institution to encourage the introduction of CBCS in its affiliated colleges?**

From academic year 2013-2014 Savitribai Phule Pune University, has decided to implement Credit and Semester System (CSS) in all its affiliated colleges and recognized institutions where post graduate courses are conducted. Our institution is affiliated to Savitribai Phule Pune University; it has adopted the Credit and Semester System (CSS) for post graduate course.

Assessment consists of In-semester continuous assessment and end semester assessment. Both have an equal weightage of 50% each.

Under In-semester assessment our college conducts theory examination for an In-semester assessment which contains five tests 1 written test for 30 marks and four tests of 5 marks which are selected from the following:



Term paper, seminar presentation, short quiz, assignments, extension work, an open book test, mini research project by individual student or group of students and case study.

The nature of question for the written test is decided by concern teacher in consultation with the Head of Department.

For practical examination, day to day assessment of journal is done for individual practical on the basis of journal writing, day to day performance and viva. Sessional examination evaluation includes experiment, viva and synopsis.

#### **1.2.6 What percentage of programs offered by the institution follows:**

- \* **Annual system**
- \* **Semester system**
- \* **Trimester system**

All programs offered at PDVVPF's College of Pharmacy follows semester system as per Savitribai Phule Pune University.

#### **1.2.7 How does the institution promote multi/inter-disciplinary programs? Name a few programs and comment on their outcome.**

The programs offered under Pharmacy discipline are to learn and acquire adequate knowledge, necessary skills to practice the profession of Pharmacy. The program is versatile, preparing graduate with a sound knowledge and understanding of science and technology.

#### **1.2.8 What programs are offered for practicing health professionals for skills training and career advancement?**

Experts from specialized area in the field of Pharmacy are invited to share their knowledge and expertise with faculty and students for their skill and career advancement.

### **1.3 Curriculum Enrichment**

#### **1.3.1 How often is the curriculum of the institution reviewed and upgraded for making it socially relevant and/or skill oriented /knowledge intensive and meeting the emerging needs of students and other stakeholders?**

As our college is affiliated to Savitribai Phule Pune University hence syllabus is adopted as prescribed by university. University syllabus is revised at every four to five years interval or otherwise as and when needed.

Enrichment of curriculum is done for making it socially relevant and/or skill oriented /knowledge intensive and meeting the emerging needs of students and other stakeholders.

Skill oriented subjects such as Communication and Soft Skill Development, Pharmaceutical Analysis, Quality Assurance Techniques, Analytical Pharmacognosy and Extraction Technology are included in revised curriculum.

Socially relevant and knowledge intensive subjects such as Bioorganic Chemistry and Drug Design, Natural Product Chemistry, Natural Drug Technology, Natural Products: Commerce Industry and Regulations are included in revised curriculum.

**1.3.2 During the last four years, how many new programs were introduced at the UG and PG levels? Give details.**

- \* multi/inter m disciplinary
- \* programs in emerging areas

**Table 1.5: New programs introduced in last five years**

Sr. no.	Programs	Year
1.	Doctor of Philosophy in Pharmaceutical Chemistry	2011
2.	Master of Pharmacy in Pharmacology	2012
3.	Master of Pharmacy in Pharmaceutics	2013

**1.3.3 What are the strategies adopted for the revision of the existing programs? What percentage of courses underwent a syllabus revision?**

The strategies adopted for revision of the existing programs is detailed in 1.4.1. The earlier 2008 pattern was yearly which has been changed to semester in 2013. The core subjects as per 2008 pattern are reviewed and redesigned to meet the needs of current trends.

**Table 1.6: Newly introduced subject in the curriculum**

Sr. no.	Name of subject
1.	Communication and soft skill development
2.	Quality Assurance Techniques
3.	Analytical Pharmacognosy and Extraction Technology
4.	Bioorganic Chemistry and Drug Design
5.	Natural Product Chemistry
6.	Natural Drug Technology
7.	Natural Products: Commerce Industry and Regulations

**1.3.4 What are the value-added courses offered by the institution and how does the institution ensure that all students have access to them?**

The various value added courses are being conducted in the college, where all students have free access.

**Table 1.7: Value-added courses conducted**

Description	Courses	Outcomes
Moral and Ethical Values	Students interact with people on social, moral, ethical principles AIDS awareness	Student frequently interacts with social NGO's like Snehalaya, Sawali, participates in the events organized by them which helps to promote the Ethical Values amongst the students

Employable and life Skills	Personality development Stress management Placement activities. Communication and soft skill Development Minor research project	Overall personality like dressing sense, hygiene, public speaking, eating habits, etiquettes etc. get developed in students. It helps the student to be tension free and boost the confidence level in the students Placement activities increase employability. Improvement of communication skill, language, soft skill of the students. Apply theoretical and practical knowledge in innovative way.
Better career option	Career guidance Industrial training Industrial visits Intellectual property	Career guidance cell was introduced with the noble aim of systematic program modules that increase the possibility of placement. With this students become Career oriented and have vision for their Career. Updating the knowledge of Pharmacy and correlate their curricular knowledge with the industry. Knowledge of intellectual property rights helps the students to understand global scenario of Pharma industry.

**1.3.5 Has the institution introduced skills development programs in Consonance with the national health programs?**

The college makes effort to make every student socially energetic and responsible by enabling them to participate in the designed programs like health awareness, hygiene and socially relevant activities.

The college actively conducts following programs:

Free health check-up camps, AIDS awareness activities, blood donation camp, cancer awareness program and tuberculosis awareness program.

**1.3.6 How does the institution incorporate the aspects of overall personality development addressing physical, mental, emotional and spiritual well-being of the student?**

The college initiates various efforts for the overall personality development addressing physical, mental, emotional and spiritual well-being of the student.

**Table 1.8: Aspects of overall personality development**

Aspects	Activities
Spiritual and holistic virtues	College arranges Yoga awareness seminars for maintaining Healthy lifestyle to succeed in every core of life. Institute organizes guest lectures for improving holistic values in students
Planning and management skills	Institute celebrates Pharmacy day and organizes poster presentation competition, postgraduate seminars which helps to enhance planning and management skills in students
Mental well being	Quiz competition, group discussion, debate and indoor games
Physical well being	Sports activities and yoga
Emotional support	Motivational talk, student counseling system to improve the overall personality

**1.3.7 Does the curriculum provide for adequate emphasis on patient safety, confidentiality, rights and education?**

The pharmacist plays an equally important role for patient safety. The curriculum includes certain subjects which emphasizes on patient safety, confidentiality, rights and education. Subjects such as Hospital and community Pharmacy, Forensic Pharmacy, Clinical Biochemistry and Human Anatomy and physiology where students can get to know about moral rights of patients, importance of all the laws that are related to patient safety and confidentiality. Students also develop ethical values within them and give emphasis on patient education regarding their rights and safety.

**1.3.8 Does the curriculum cover additional value systems?**

Yes, the curriculum provides following additional value systems.

**Table 1.9: Additional value systems**

Additional Value	Implication	Additional value systems
Communication	Attention to the development of human relationships and honest interpersonal communication	Leadership training, Student leaders of varied kinds, lecture on communication skills, group discussion
Personal values	Recognition of the importance of personal values and facilitating the development of it	Value education programs, talks by experts
Presentation skills	Improve Visualization and Imagination	Utilization of computers and LCD on a regular basis. Power point presentation by students on novel points in curriculum
Innovative view	Improve the creativeness, Scientific temperament	Group discussions, participation of students in various research competitions
Attentiveness and	Improvement in academic	Emphasis on discipline and

punctuality	performance of student	punctuality. Orientation for freshers, informing parents about academic performance of their wards periodically
Upgrading knowledge	Staying updated with the latest literature in medicine	The college provide Open book access, book bank facility, latest national and international journals, visit to medicinal garden and identification of herbs
Eminence and excellence	Develops critical thinking, problem-solving, written communication	Guidance to competitive exams improves confidence of students for attending the exam.

## 1.4 Feedback System

### 1.4.1 Does the institution have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The college has a formal mechanism to obtain feedback from students regarding the curriculum. Feedback from students regarding current syllabus is taken by respective subject teacher. The subject teachers analyze the contents given by students gives necessary suggestion to improve quality of curriculum to reach the current trends in curriculum and convey this to our senior faculties who are members of board of studies and syllabus committee. Thus the inputs are considered in framing new curriculum.

### 1.4.2 Does the institution elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting Webinars, workshops, online discussions, etc. and their impact.

The college invites eminent speakers from academia and industry during seminars and workshop where they their views regarding the current syllabus are obtained.

The faculty members of our college are always in contact with national and international faculties and alumni through which they get different ideas, there by playing role in designing of curriculum.

### 1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum and the extent to which it is made use of.

During syllabus revision, necessary care is taken by University to improvise the curriculum Feedback from students to respective class teacher with additional suggestion is conveyed to our senior faculties. Our senior faculties are the members of Board of Study and syllabus committee who are involved in syllabus designing. Also few faculties are deputed to syllabus orientation program. The alterations, modifications, deletions and omissions are incorporated before final framework of curriculum by the Board of Study members in University. Various aspects like recent development in the field, academic, industrial and hospital trends, multi-skill development, development of creativity and originality, values and social factors are taken into

consideration while designing curriculum. Immense stress is given by experts to incorporate more practically inclined portion. It benefits the students in long run.

#### 1.4.4 Based on feedback, what are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring the effective development of the curricula?

Various measures are undertaken in order to ensure effective implementation of curriculum.

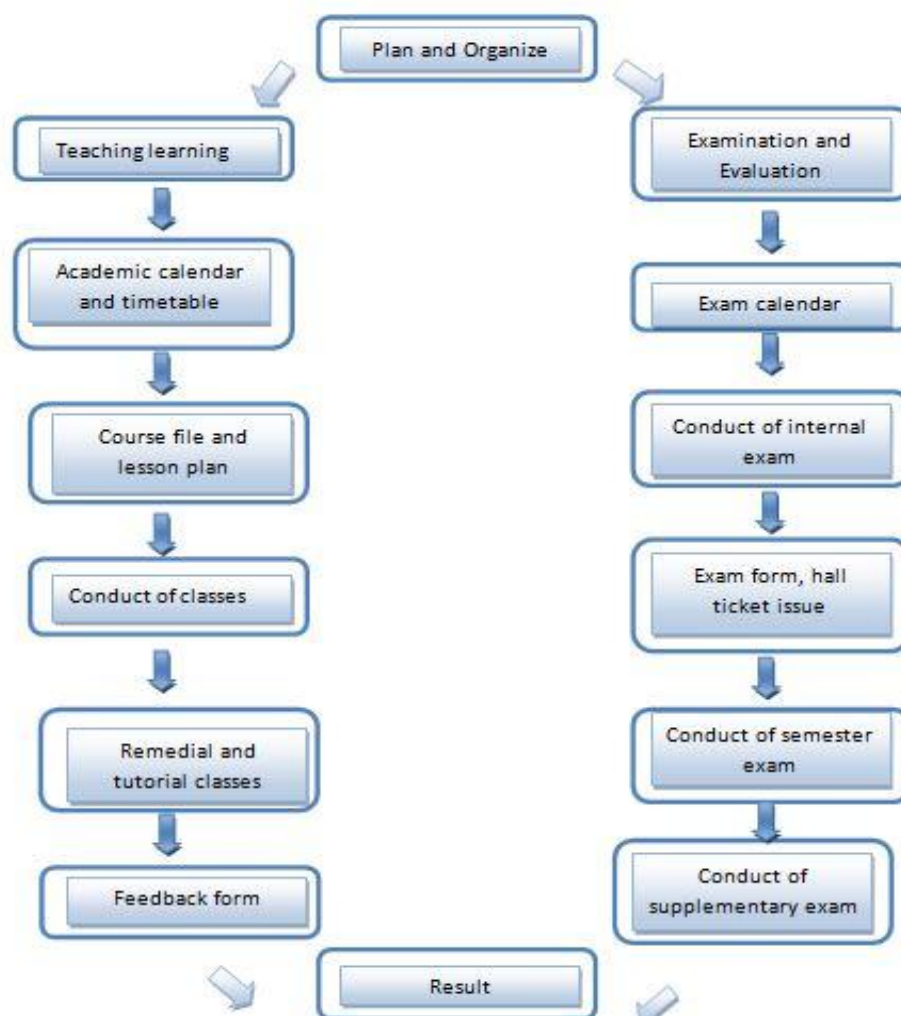


Fig. 1.3: Quality enhancement measures

#### 1.4.5 What mechanisms are adopted by the management of the institution to obtain adequate information and feedback from faculty, students, patients, parents, industry, hospitals, general public, employers, alumni and interns, etc. and review the activities of the institution?

Our management, staff members and all other stakeholders works collectively. Feedbacks on the various activities of the institution are collected regularly. The feedback forms are analyzed by the academic committee which helps in overall development of the institution.

- Students suggestion on contents of curriculum
- Students feedback on teaching learning process

- Verbal discussion with students by counselor/mentor
- Open session with Principal, academic monitoring committee
- Suggestion box
- Feedback from outgoing students
- Feedback from alumni
- Suggestions are sought from parents
- Employer feedback
- Staff student parent meet.



## CRITERION II: TEACHING – LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 How does the institution ensure publicity and transparency in the admission process?

The admission process to various programmes offered at Pad. Dr. Vithalrao Vikhe Patil Foundation's, College of Pharmacy, is carried out by competent admission authorities like Directorate of Technical Education, Mumbai, Maharashtra; Savitribai Phule Pune University, Pune respectively. College is also ensuring publicity regarding admission process of B. Pharmacy, M. Pharmacy and Ph.D. by following ways:

- Publishing advertisement in leading news papers regarding admission process.
- Information regarding admission process is made available on college website [www.vikhepharmacynagar.com](http://www.vikhepharmacynagar.com)
- Through prospectus.
- Through college alumni association, Ahmednagar Pharmacy College Alumni Association (APCAA).
- Through brochure and pamphlet circulation.
- Display of circulars and notices on college display boards.
- Awareness regarding pharmacy course, its opportunities and scope in various sectors is provided to XII Science College, private coaching classes and also in CET crash courses through power point presentation, leaflet, handbills and brochure distribution.
- College actively participates every year in different education and career fair programmes.
- Advertisement regarding admission process, seats and courses available is focused and highlighted on local TV cables, FM radio, hoardings and leading newspapers.

The college ensures transparency in admission process of B. Pharmacy, M. Pharmacy and Ph.D. in following manner:

- Undergraduate and Postgraduate course: Admissions for B. Pharm and M.Pharm are carried out under the advisory body of Directorate of Technical Education, Mumbai. Maharashtra.
- Admission is carried out by Directorate of Technical Education, through the competent authority of Centralized Admission Process (CAP).
- College is approved as Application Receipt Centre (ARC) for undergraduate and post graduate course by Directorate of Technical Education, Mumbai.
- College assures transparency in the admission process by forming 'College Admission Committee' and admissions are done as per the guidelines of Directorate of technical Education, Mumbai.
- Admission related information and brochure is made available by Directorate of Technical Education on its website <http://www.dte.org.in/ph>.

Admissions to Ph.D. course are done by Savitribai Phule Pune University, Pune as per the guidelines prescribed by University Grants Commission.

**2.1.2 Explain in detail the process of admission put in place by the institution. List the criteria for admission.[e.g. i) Merit ii) Merit with entrance test iii) Merit entrance test, aptitude and interview iv) common entrance test conducted by state agencies and national agencies v) Any other criteria (specify)]**

- a. Process of admission and criteria adopted for admission are as per guidelines and notification given by Directorate of Technical Education, Mumbai, Maharashtra.
- b. Directorate of Technical Education is the competent authority to give admission at undergraduate/postgraduate programme throughout centralized admission process.
- c. Common entrance examination is conducted for admission to under graduate and post graduate course by the competent authority appointed by Govt. of Maharashtra at all the district headquarters in the state of Maharashtra.
- d. Competent authority headed by Directorate of Technical Education (DTE), Maharashtra shall be the authority for centralized admission process and admit the students as per their allotment through CAP to respective colleges.
- e. As per rules candidate must pass XII science with securing minimum 45% marks for open category and 40% marks for reserved category students in Physics, Chemistry, Mathematics/Biology and should obtain a non zero score in common entrance test (CET).
- f. As per rule common merit list is prepared based on Common Entrance Test (CET) marks followed by XII Science marks.
- g. For post graduate admissions Government of Maharashtra is conducting Common Entrance Test (CET) at state level and a national level examination GPAT Graduate Pharmacy Aptitude Test (GPAT) is also conducted for post graduate admissions.
- h. Students who have qualified in GPAT get admission to PG course on the basis of GPAT score after counseling round through DTE admission process followed by CET criteria to non GPAT qualified students.
- i. Major steps in CET and admission through CAP are:
  - Filling and submitting online application form at ARC
  - Display of merit list.
  - Filling and confirming online option form for CAP round I/II and display of provisional allotments.
  - Reporting to respective institutes as per the allotment of CAP round I/II.
  - Conduction of CAP round III by counseling and reporting to respective institute.
- j. Steps of admission by institute against vacant seats:
  - All admissions for vacant seats are done in fully fair and transparent manner based on merits only.
  - Applications for the vacant seats are invited by giving advertisement in news papers.
  - Aspiring candidates fulfilling eligibility criteria and after verification of documents the seat is allotted by college on the basis of merit.
  - These admissions are made in transparent manner and strictly as per the merit of the candidates who have applied to the institute.

### 2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

Admissions for each programme are based on merit as per the score in entrance exam under advisory body of DTE, Mumbai. College follows centralized admission process (CAP) as per competent authority of DTE, Mumbai.

- Detail admission process in the affiliated colleges

<b>Step 1</b>	Fill and submit application form for CET Exam
<b>Step 2</b>	Appear for MHT-CET as per schedule
<b>Step 3</b>	Declaration of the result of MHT-CET
<b>Step 4</b>	Document verification and fill in online application form for centralized admission to Pharmacy and confirm it at A.R.C. by eligible qualified MHT-CET candidates
<b>Step 5</b>	Display of merit list of candidates who have confirmed the online application form for centralized admission to Pharmacy
<b>Step 6</b>	Fill and confirm online option forms for CAP round(s) I/II on website <a href="http://www.dte.org.in/ph">www.dte.org.in/ph</a>
<b>Step 7</b>	Display of allotment (s) of respective CAP Round (s) I/II on website
<b>Step 8</b>	Reporting to respective institutes as per allotment of CAP Round(s) I/II
<b>Step 9</b>	Conduction of CAP Round III by counseling and reporting to respective institute allotted

As such Savitribai Phule Pune University has no any direct role in the admission process of undergraduate and postgraduate, but Directorate of Technical Education play major role in admission process.

For admission to the Ph.D. programme Savitribai Phule Pune University follows guidelines prescribed by University Grants Commission as follows:

- Entrance Examination conducted by University with two papers Paper 1 – General Aptitude test and Paper 2 – Subject wise test. Students qualified in GPAT with valid score are exempted from entrance examination.
- Declaration of result of entrance test followed by interview. Allotment of Research guide for selected candidates shall be decided by university in a formal manner depending on the number of candidates per teacher,

available specialization among the research guides and the area of interest as indicated during interview by the candidate.

**2.1.4 Does the institution have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

- a. Yes, the college has a mechanism to review its admission process and student profile annually. Admission process is conducted through Centralized Admission process (CAP) by Directorate of Technical Education, Mumbai (MS). College has constituted admission cell through which students are counseled regarding admission process as well as seminars and presentation are conducted for XII science students at junior colleges for creating awareness about admission process and list of documents required for admission. However students are also informed about admission process telephonically as well as message alert service on mobile phones.
- b. College is an approved application receipt centre which actively participates for online receipt of forms for centralized admission process.
- c. Detail information of the students is collected and student profiles are uploaded every year on web portal of Pharmacy Council of India and AICTE, New Delhi.
- d. **Outcome of analysis:** This has helped the students to know the details of admission process and to know schedule of admission process.
- e. **Contribution for Improvement of the process:** Details admission process is explained by faculty members to XII Science students at junior colleges, CET crash courses, private coaching classes, thus students are made aware regarding admission process through various techniques.

**2.1.5 What are the strategies adopted to increase or improve access for students belonging to the following categories:-**

- \* **SC/ST**
  - \* **OBC**
  - \* **Women**
  - \* **Persons with varied disabilities.**
  - \* **Economically weaker sections.**
  - \* **Outstanding achievers in sports and other extracurricular activities**
- a. Admissions are allotted as per merit and as per constitutional reservation for backward class category for Maharashtra state candidates according to rules and regulations prescribed by DTE.
  - b. Percentage of seats reserved for candidates of reserve class category are as follows-
    - SC - 13% for scheduled class (SC)
    - ST - 07% for scheduled tribes (ST)
    - NT - 11% for Nomadic Tribes (NT)
    - OBC - 19% for Other Backward classes (OBC)
    - SBC - 02% for Special Backward classes (SBC)
    - (Scholarship as per rules and regulations prescribed by State Government.)
    - Women - 30% seats are reserved for female candidates in all the programmes of the college.

- Differently abled - 3% of total sanctioned intake are reserved for physically handicapped candidates under following categories.
  - c. Visually impaired (blind) candidates.
  - d. Speech and hearing impaired (deaf and dumb) candidates.
  - e. Orthopedic disorders, learning disabilities, Dyslexia, Dyscalculia, and Spastic.
  - Economically weaker section- For economically backward class students (EBC) scholarship from State Government scholarship is available as per their rules.
  - Any other – Concessions in fees for sons and daughters of teaching and non teaching staff of primary, secondary and higher secondary school teachers is provided as per rules of state government.
- Concession in fees for Backward class category candidates belonging to Maharashtra State only (SC, ST, VTDT, NT(A) /NT(B)/ NT(C)/ NT(D)/ S.B.C./ O.B.C. category candidates) is provided as per rules of state government.

**2.1.6 Number of students admitted in the institution in the last four academic years:**

**Table 2.1: Students admitted for B. Pharm. in last four years**

Category	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	10	12	10	13	11	17	14	16
ST	00	00	00	02	02	03	00	02
OBC	43	21	41	22	27	25	18	30
General	80	49	72	49	70	47	62	52
Others	39	17	34	29	37	26	30	30
<b>Total</b>	<b>271</b>		<b>272</b>		<b>265</b>		<b>254</b>	

**Table 2.2: Students admitted for M. Pharm. in last four years**

Category	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Female	Female	Male	Female	Male	Female
SC	00	02	02	01	02	02	02	02
ST	00	00	00	00	00	00	00	00
OBC	09	10	09	06	10	04	10	06
General	24	13	23	07	22	10	20	19
Others	06	05	08	07	07	09	11	06
<b>Total</b>	<b>69</b>		<b>63</b>		<b>66</b>		<b>76</b>	

**Table 2.3: Students admitted for Ph.D. in last four years**

Category	2013-14		2014-15	
	Male	Female	Male	Female
SC	00	00	00	01
ST	00	00	00	00

OBC	01	00	00	00
General	01	00	03	01
<b>Total</b>	<b>02</b>		<b>05</b>	

**2.1.7 Has the University conducted any analysis of demand ratio for the various programs of the University departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase/decrease.**

The University has not conducted any analysis of demand ratio for the various programs.

However the demand ratio analysis for various programmes was conducted by our faculty members. Thus considering collective suggestions from experts the new programmes were started and seats were increased for various programmes considering current need and demand for upliftment of scenario in pharma field.

**Table 2.4: Various new programmes**

Programmes	Year	Number of seats	Comment on trends
M. Pharm. in Pharmaceutical Chemistry	2008-09	18 Number of seats increased from 10 to 18	There is a need of postgraduate students in R & D sections of pharmaceuticals.
M. Pharm. in Quality Assurance Techniques	2010-11	18	Demand to current scenario in pharmaceutical field like documentation, regulatory affairs, validation, cGMP, analytical method validation, preparation of SOP, BMR, etc.
M. Pharm. in Pharmacology	2012-13	18	Demand of post graduates increased in field of clinical research organization.
M. Pharm. in Pharmaceutics	2013-14	18	There is a need of trained post graduate experts in Development of novel formulation using newer techniques.
Ph.D. in Pharmaceutical Chemistry	2013-14	As per University rules	Demand for research in drug manufacturing, synthesis, molecular modeling, etc.

Due to more employment in industry for postgraduate students and scope in R & D, Regulatory, Clinical research, formulation development it was felt necessary to start postgraduate programmes in different specializations in the college, to cater the needs of this region. Also college has well furnished and well equipped laboratories, central machine and sophisticated instrument laboratory, and library to carry out research work of high quality.

**2.1.8 Were any programs discontinued / staggered by the institution in the last four years? If yes, specify the reasons.**

No, any programs were discontinued/staggered by the college.

**2.2 Catering to student Diversity:**

**2.2.1 Does the institution organize orientation / induction program for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using feedback in subsequent years.**

Yes, college organizes orientation/induction program and staff-parents-students meet for freshers after commencement of every academic.

**Duration:** Generally in the month of August induction program and parents meet is organized for one day.

**Issue covered:**

- Aim, scope and job opportunities in pharmacy profession.
- Complete details about pharmacy course.
- Examination scheme and evaluation process.
- Teacher's introduction.
- Government schemes for scholarship.
- Details of academics.
- Rules for attendance and discipline.
- Rules and regulations with respect to ragging.

**Experts involved:**

- Management office bearers.
- Principal of institute.
- Head's of all departments.
- Academic coordinator, exam coordinator.
- All teaching staff of institute.

**Students are made aware with college facilities:**

- E-library.
- Instrument laboratories.
- Computer centre with internet facility.

**Mechanism for using feedback:**

After the program, parent's feedback is collected and suggestions given by them are considered for improvement in subsequent years.

**2.2.2 Does the institution have a mechanism through which the "differential requirements of the student population" are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

Yes, the college has a mechanism to study differential requirement of the student population after admission and before the commencement of the classes, through admission counseling cell. Admission counseling cell identifies key issues which are addressed during course in following ways:

- a. Career guidance:** Scope, aim and job opportunities in pharmacy profession are provided by staff members.
- b. Communication Skills:** As most of the students are from rural area, they face English communication and writing problems. To overcome this students are counseled in English by mentor and guest lecturers from eminent speakers are arranged as a communication development programs.



- c. **Personality development program:** Institute is arranging guest lecturers of eminent speakers on related topic of personality and soft skill development.
- d. Appointed counselors discuss academic, non academics, personal issues, problems of students and resolve them.
- e. **Anti-ragging issues:** Institute has constituted anti-ragging squad and anti-ragging committee to handle and monitor ragging cases if any. Till date not a single ragging case is identified. The college is 100% ragging free campus.

**2.2.3 How does the institution identify and respond to the learning needs of advanced and slow learners?**

- a. College identify advanced learners and slow learners by daily academic performance through academic results, class test and daily assessment during practical, marks in internal exams, interactive session, group activities, presentations. First year students are identified through daily monitoring by mentors during practical and theory hours, through XII merit, discussion.
- b. **Responds to learning needs of advanced learner:**
  - Identified advanced learners are guided and promoted for innovative research. These students are motivated and guided to participate in research competition, intercollegiate poster presentation competition, debate competition and quiz competition.
  - Advanced learners are appreciated with academic excellence award in college annual function.
  - Advanced learners are guided for publishing research papers in reputed journals.
  - Extra lectures by expert faculty are arranged for advanced learners for competitive exam GPAT preparation.
  - Two students have secured Gold medal in University at Undergraduate level by achieving first position at B. Pharm. course within University for year 2002 and 2004 respectively.
  - Also some students have cracked competitive exam of NIPER and GPAT.
- c. **Responds to learning needs of slow learner:**
  - Remedial classes are conducted for slow learner to clear their basics in respective courses.
  - Special attention is given to slow learner during tutorial class and practical hours.
  - Mentors give personal attention to slow learners, so that they can cover and cope up with flow of regular students. Also motivation and additional guidance is provided to such students as and when needed.

**2.2.4 Does the institution offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

Yes college offer bridge courses every year, remedial classes for difficult subjects. Remedial classes are structured in to the time table.

**a. Bridge course:**

To help the students to have an easy transition from the education system of schools to the new environment of higher education, the college has adopted the strategies of teaching fundamentals of English and generally basic theory concepts during tutorial and remedial classes to cope with the subject. This enable us to give customized attention to each student, thereby bridging the knowledge gap between students and ensuring that all students have attained personal and professional development.

- b. Remedial course:** Remedial classes timing and subjects are structured into the time table of each class and they are conducted as per the schedule mentioned in time table to slow learners.
- c. Add on courses:** College conducts tutorial classes before practical hours for practical batch students. College also conducts guest lectures on different topics related to Pharmacy course.

**2.2.5 Has the institution conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, differently-abled, etc.? If yes, what are the main findings?**

- a.** College conducts study on academic growth of all the students including disadvantaged sections of society, economically disadvantaged, differently abled etc. Institution appoints counselors for paying attention and interacting with students on academic growth monitoring. Evaluation of academic performance of these students is studied by counselors and weaker points are resolved.
  - b.** Remedial and tutorial classes are conducted for disadvantaged sections of society, economically disadvantaged and differently abled students.
  - c.** Economically disadvantaged students are provided with facility of 'Earn and learn Scheme' from Savitribai Phule Pune University.
  - d.** For differently abled students a helper is provided during practical hours.
- Overall aim of homely and positive atmosphere is created and maintained within the college.

**2.2.6 Is there a provision to teach the local language to students from other states/countries?**

No, there is no special provision to teach local language to students from other states. But they are motivated to learn the local language. Also mentors cope up them with routine activities, monitor regarding academics and pays personal attention towards them.

**2.2.7 What are the institution's efforts to teach the students moral and ethical values and their citizenship roles?**

College motivates and initiates the students about moral, ethical values and their citizenship role.

**a. Moral and ethical value:**

- College displays pharmacist oath in college premises and explain its importance to students and motivates them to follow moral ethics.
- During practical hours moral responsibility and ethical values are to be followed by sharing with students.
- Ethical guidelines regarding animal experimentation are taught to students and are implemented during handling and performing animal experimentation.

- To give moral support to students guest lecturers of eminent personalities on topic 'Emotional Intelligence, Personality Development, Communication and Soft Skill Development' are arranged.
- Ethical guidelines while performing experimentation on animals are followed according to guidelines of committee for the Purpose of Control and Supervision of Experimental Animals (CPCSEA).
- Arranging motivational guest lectures on "Yoga and Meditation" for providing moral support to give peace of mind.

**b. Citizenship Role:**

A platform to participate in various social activities is provided to students like arranging blood donation camps every year, visiting to social NGO 'Snehalaya', institute of child helpline and welfare to give moral support to orphans and to participate in various social activities of public health care sector for society.

**2.2.8 Describe details of orientation/ foundation courses which sensitize students to national integration, Constitution of India, art and culture, empathy, women's empowerment, etc.**

College conducts various orientation/foundation courses for sensitizing the students to National integration, constitution of India, art and culture, empathy, women's empowerment in following ways:

**a. National integration and constitution of India:**

- Students are motivated to attend training programmes organized by 'Rashtriya Swayamsevak Sangh' about 'Entrepreneurship and Competitive exam guidance' to develop good qualities in students.
- Guest lectures of eminent personalities are arranged on 'National Integrity and Constitution of India' to create awareness and self confidence in students.
- Students participated in examination of "Gandhi Vichar Sanskar" arranged by Gandhi research foundation, Jalgaon, Maharashtra.

**b. Art and culture:**

To develop cultural attributes in students, college provides platform and organizes various events for extracurricular activities like traditional day function, Ganesh festival, mehendi competition, rangoli competition etc.

**c. Women's empowerment:**

Students are sensitized about women empowerment through committee of 'Women cell' and various cultural activities arranged about women's empowerment to built self confidence and personality development of female students and faculty of the college.

**2.2.9 Has the institution incorporated the principles of Life Style Modifications for students based on Eastern approaches in their day to day activities?**

Yes, the college incorporated the principles of life style modification for students such as extracurricular, co-curricular activities, indoor and outdoor sports.

- a. Extracurricular Activities:** Activities like annual day function, dance competition, drama and singing competition, fresher's program for

undergraduate and postgraduate students are arranged in the college to improve student's inner drives creativity and art.

- b. **Co-curricular Activities:** To develop knowledge of Pharmacy profession, co-curricular activities like teacher day, cancer day, World AIDS day, and pharmacist day are arranged to develop a lifestyle modification.

**2.2.10 Has Yoga/Meditation/any other such techniques been practiced by students regularly as self-discipline?**

College motivates students to practice Yoga and meditation by arranging guest lectures by Yoga experts and also students practice Yoga regularly. Books related to yoga / meditations are available for students in library.

**2.2.11 How does the institution attend to the diverse health issues (physical and mental) of students and staff?**

College attends to the diverse health issues of staff and students by following ways:

- a. Accidental Health Insurance facility is provided to students by 'Amartya Shiksha Yojana Policy' through 'National Insurance corporation office'
- b. College staff is insured by 'PIRENS GROUP', Loni.
- c. Dr. Vikhe Patil Hospital provides medical facility for students and staff on free basis for any injury, sickness or hospitalization.
- d. Dr. Vikhe Patil Hospital Provides free ambulance facility in emergency.
- e. Institution organizes guest lectures on health issues like cancer awareness, AIDS awareness, Tuberculosis awareness etc. by specialized doctors.
- f. For mental health personal counseling is performed by mentor to students.
- g. For mental health issue a guest lectures were organized of psychology teacher on 'Emotional Intelligence, Oncologist on cancer awareness and tuberculosis as well as AIDS awareness.

**2.2.12 Does the institution cater to the needs of groups / individuals requiring special attention by conducting group classes / special individual trainings / focused group discussion / additional training measures etc.?**

Yes, the college caters to the needs of groups and individual students through following ways:

- a. College conducts tutorial class in a group of approximately 20 students which permits students to interact with faculty and discuss academic issues by group discussion.
- b. Special individual training is provided to students participating in "innovative research project competition".
- c. Additional training is given to selected research projects at higher levels like university state and national.
- d. Special individual training is provided to students regarding instrument and machinery handling for up gradation of knowledge and to develop technical practical skills.
- e. College permits students to participate in poster presentation competition and workshops / seminars for up gradation of their knowledge organized by various other institutes.
- f. In addition training measures, institution Training and Placement Cell allots the students to undergo industrial training in pharmaceutical organization for period of one month.

- g. As additional measures, college conducted personality development workshop within campus for B. Pharm. and M. Pharm. students.

## 2.3 Teaching-Learning Process

### 2.3.1 How does the institution plan and organize the teaching-learning and evaluation schedules such as

- \* **Academic calendar.**
- \* **Master plan.**
- \* **Teaching plan.**
- \* **Rotation plan.**
- \* **Course plan.**
- \* **Unit plan.**
- \* **Evaluation blue print.**
- \* **Outpatient teaching inpatient teaching**
- \* **Clinical teaching on other sites.**
- \* **Teaching and community.**

The college follows curriculum prescribed by Savitribai Phule Pune University.

- a. **Academic calendar:** Academic calendar is framed and designed by academic committee of the college in consultation with all head of departments. Academic calendar comprise/consist of total number of working days, holidays, academic commencement dates, exam schedule, tentative schedule of co-curricular, extra-curricular and other social events.
- b. **Master plan:** Before the beginning of each semester, academic master plan is designed by academic committee and circulated to all departments and displayed on notice board. Time table is prepared in consultation with head of the departments and faculty.
- c. **Teaching plan:** The theory and practical are conducted strictly as per time table from day one of academic commencement. In the beginning basic fundamentals and concepts related to syllabus are taught to newer students. Teaching plans are regularly monitored by academic monitoring committee. In class room teaching study material is also provided as a additional support to students. Students are made aware regarding reference and text books to be used for particular topics. Faculty prepares coursewise teaching plan in course file for theory as well as practical.
- d. **Rotation plan:** Subject wise work load is distributed to faculty in sharing for few subjects. During regular academic if any faculty is on leave then another faculty conducts the class/practical which ensures keeping continuation of classes.
- e. **Course plan:** Provision for tutorial and remedial classes are mentioned in time table and regularly conducted as per time table. The course plan is maintained in the course file and following teaching – learning activities are planned and organized:
- Teaching plan (Semesterwise/Yearwise)
  - Topics covered
  - Attendance sheet
  - List of practical's conducted
  - Question bank
  - Tutorial class

- Remedial class
- f. **Unit plan:** Course planner for theory and practical are prepared for students and for faculty for smooth and regular conduction of classes. For regular and continuous functioning of academic schedule a provision for lecture practical adjustment is ensured in absence of any faculty. Detail chapter wise / unit wise plan is prepared and followed as per the course file.
- g. **Evaluation blue print:** College has formed an examination committee consisting principal as chairman and four teachers nominated by principal, which monitors all the functions of exam departments. After commencement of academic year examination committee conducts the meeting on following issues:
  - **For Under Graduate course:** Internal sessional examination (evaluation done at college level) = 30 marks.  
University Examination: Evaluation done at external faculty level = 70 marks.
    1. Evaluation process is according to Savitribai Phule Pune University. Evaluation of the students for each subject comprises 100 marks for theory and practical individually.
    2. According to University Internal examination evaluation is of 30 marks and one and half hours duration. Improvement examination is allowed for candidates securing less than 40% marks in the internal examination for theory and less than 45% marks in practical's with prior permission from examination committee.
    3. Internal assessment of practical is based on day to day attendance, viva voce, laboratory record etc.

**Table 2.5: Practical examination pattern**

Sr. no.	Head	Marks distribution
1.	Practical performance	15
2.	Synopsis and viva	09
3.	Lab record and attendance	06
	Total marks	30
	Duration	3 Hours

**Table 2.6: Theory examination pattern**

Sr. no.	Head	Marks distribution
Q.1	2 marks $\times$ 5 questions (out of 7)	10 marks
Q.2	5 marks $\times$ 2 questions (out of 3)	10 marks
Q.3	10 marks $\times$ 1 questions (out of 2)	10 marks
	Total marks	30 marks
	Duration	3 Hours

4. 75 % attendance for both theory and practical classes separately is mandatory for students to appear for sessional and university examination.
  - **For Post Graduate course :**
    1. **Scheme for theory examination:** In semester continuous assessment for 50% marks and at least five tests should be conducted for full course (one written test for 30 marks and any four tests of five marks i.e.  $4 \times 5 = 20$  marks should be conducted).



- 2. Scheme for practical examination:** Day to day assessment during individual practical's = **20 marks**

Evaluation includes journal, day to day performance, viva etc.

Sessional exam = **30 marks.**

**Total = 50 marks.**

The syllabus and core structure evaluation is done as per credit and grade point system according to Savitribai Phule Pune University.

**2.3.2 Does the institution provides course objectives, outlines and schedules at the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

Yes, the college provides course objectives, outlines and schedules at the commencement of academic session.

**Course objectives:**

- a. Pharmaceutical science is primarily concerned with the development of new medicines, including the design, disposition, delivery, action and use of drugs. This requires diverse subject knowledge including Pharmacology, Pharmaceutical chemistry, Pharmaceutics and Pharmacognosy.
- b. Objective of Pharmacy professionals regarding field of Pharmacy are to increase consumer awareness, increase in awareness that quality pharmaceutical care can be delivered only by pharmacists trained in direct patient care, community pharmacy.
- c. To optimize health of all members of society through the promotion of safe, effective and rational medicine use, patient counseling and monitoring of disease management through pharmaceutical care.
- d. Pharmacists and pharmaceutical scientists working within various discipline of pharmacy will be established and recognized as the medicine expert and an expert in health promotion and disease promotion.

**Outlines and schedule:**

- a. Course objective is explained to students by senior faculty during induction programme and before commencement of academics by concerned subject teacher.
- b. Detail academic calendar is planned and prepared consisting of examination dates and displayed on notice board to enhance student's planning for their studies.
- c. Course planner is structured and frame for individual subjects by concern staff, before the commencement of academic session.

**2.3.3 Does the institution face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

College follows well framed academic calendar and is always able to complete the curriculum in the stipulated time. The care is taken to complete the syllabus within stipulated time frame and calendar.

- a. To face these challenges following measures are taken
- b. Conducting extra lectures and practicals for late admitted students.
- c. Counseling by mentors.
- d. Class test conducted for late admitted students.
- e. Question bank and study material are provided to students.



- f. Special attention paid to late admissions during practical hours to discuss academic issues.

**2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

- a. The learning is made student centric by adopting various learning activities.
- b. Students are motivated and allowed to give the presentation in class room to improve confidence, communication skill and to promote interactive learning to enrich their knowledge.
- c. Collaborative learning is provided through group discussion and power point presentation, participation of students in seminar, workshops, and quiz competition.
- d. Faculty encourages and guides students for referring additional books and e-journals, helps in improving communication skills, learning by using internet.
- e. Students are encouraged to visit pharmaceutical industries, for that college arranges industrial visits for under graduate and post graduate students.
- f. Post graduate students are assigned with industry related projects to boost industry-institute interaction.
- g. Field work projects are assigned on environmental science.
- h. Efforts are made by faculty to lay additional stress on self –learning, learning beyond syllabus and e-learning.
- i. Demonstration of newly installed equipment is arranged for students through industry experts so as to develop practical skills.
- j. For interactive learning one-on-one interaction in class and practical hours is given for clarification of academic doubts. Personal difficulties of students are solved through student-teacher interaction during practical hours.

**2.3.5 What is the institution's policy on inviting experts / people of eminence to augment teaching-learning activities?**

College has policy to arrange and invite experts from different fields like academics, industry, allied fields, and subject experts to augment teaching – learning activities.

To meet with the growing demand and new programmes, college is organizing various guest lectures by eminent personalities from various backgrounds on the topic related with pharmacy and allied subjects, which encourages overall upliftment of the quality of the student as well as the faculty.

For subjects like organic chemistry guests lectures from subject experts for particular topics are conducted to augment teaching.

To meet the current demand and scenario in industry various eminent personalities from industry are invited for delivering guest lectures.

**2.3.6 Does the institution formally encourage learning by using e-learning resources?**

Yes, college encourages learning by using e-learning resources as follows:

- a. College has provided computers in computer centre, practical laboratories, library which are operated by staff and students for e-learning. Computer training is provided to staff members and students.
- b. LCD facility with internet connection is provided in class rooms as a resource of e-learning.
- c. College provides free internet access facility with broad band connection to all staff and students in all practical laboratories, library and computer laboratory.
- d. E-journals are freely accessed by staff and students.
- e. Educational CD's are available in library for referencing of study material.

**2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning and open educational resources used by the faculty for effective teaching?**

The technology and facilities are available and used by the faculty for effective teaching.

- a. A classroom with LCD facility, seminar hall, computerized library, computer laboratory.
- b. Use of OHP, educational CD's, permanent transparencies, open access journals.
- c. Faculty uses power point presentation during classes and practical's to make teaching more effective.
- d. Faculty uses internet for downloading information, science video's, practical demo films, etc for e-learning.
- e. Open educational resources like online scientific journals of Elsevier and Bentham is subscribed by which is accessed by staff and students.
- f. Permanent slides of various tissues and organs help the students to learn physiology.

**2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the institution's educational processes?**

Yes, there is group designated to monitor the trends and issues regarding development in open source community.

**2.3.9 What steps has the institution taken to transition from traditional classrooms into an e-learning environment?**

- a. The college has classroom with LCD facility connected to internet and audio visual facilities which is utilized by students and staff during student's seminars and faculty presentation.
- b. Well equipped computer lab with broad band internet access facilities to promote independent learning.
- c. Use of visual aids in all classrooms and use of it by staff and students make classroom teaching more effective.
- d. Faculty downloads the information, science videos from internet and study through e-learning environment.
- e. Use of Information and Communication Technique (I.C.T.) during lectures and seminars.
- f. Teacher's use power point presentation to make class room teaching more effective.

- g. CD's of various books available in library are used by staff and students to enrich the e-learning environment.
- h. Access to e-journals also helps to make effective teaching.

**2.3.10 Is there provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Yes, there is provision for the service of mentor for each class with fixed number of students assigned right at the time of their joining the programme in order to discuss academic and personal issues and also to provide psycho social guidance. Class teacher is appointed to each class and three mentors allotted with 20 students per mentor.

**Process of mentoring:**

- a. Faculty conducts meetings frequently with students in order to discuss their lagging issues, academic, professional, personal issues, and psychosocial guidance.
- b. Slow learners and advanced learners are identified and monitored regularly and their performance is intimated to parents.
- c. Following details of students are maintained by the mentor
  - Personal information.
  - Parents and guardians information.
  - Academic performance.
  - Monthly attendance.
  - Information of category and scholarship.
  - Curricular activities.
- d. Motivated and guided for:
  - Competitive exam like GPAT, NIPER, MPSC, UPSC etc.
  - Books and journals to be referred.
  - Motivation and guidance for paper publications in journals, innovative research projects, poster presentation, conferences and workshops.
  - Co-curricular and extracurricular activities
- e. College puts efforts for counseling, provides psycho social guidance, and resolves academic and personal problems. Thus 100% students are benefitted through mentoring concept. Counseling is done for overall development of the students.

**2.3.11 Were any innovative teaching approaches/methods/practices adopted and implemented by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

Innovative teaching methods adopted and implemented by the faculty to improve learning are as follows:

- a. Use of factorial design software for optimization of formula by faculty was adopted as innovation techniques in teaching.
- b. Faculty are trained for operating and handling VLife MDS software of molecular modeling which makes learning more lucid and easy.
- c. Faculty uses computer based software's and downloaded materials for teaching theory and practical concepts.

- d. Moreover various pharmacology practical's are performed by using newer techniques on animal experimentation with aid of software's like X-cology (Experimental pharmacology) - An interactive educational CD-ROM for Pharmacy and X-Pharma 2.00 for windows-simulated experiments in pharmacology.
- e. For better correlation of theory and industrial practice various demonstration of equipments, instruments are shown to students on CD's.
- f. Efforts made by the institution to adopt new innovative practices in teaching are :
  - College provided all facilities like ICT enabled classrooms, audio visual room, seminar hall and all infrastructure facilities.
  - Many types of software available which are essential for innovative teaching are available in college.
  - Organizes newer demo practical by industrial experts.

**2.3.12 How does the institution create a culture of instilling and nurturing creativity and scientific temper among the learners?**

Usually most of our students are engaged in various research activities like formulation development, chemical synthesis and its animal studies, analytical method development, etc. Students of our college are participating in innovative research project competition "Avishkar" organized every year by university. Undergraduate and post graduate students are assigned projects to nurture a scientific temper regarding research and other related skills. Students are also encouraged to participate in seminars, conferences and poster presentations for exposure of personality development and also to gain professional knowledge. College arranges industrial visit for under graduate and post graduate students to get exposure of professional, technical skills and also to better understand industrial culture in relevance to job features. Various e-learning tools like e-journals, e-books, demonstration CD's on animal experiments, experimental and statistical softwares etc. are used in innovative research based studies by students.

**2.3.13 Does the institution consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?**

- \* **number of projects executed within the institution**
- \* **names of external institutions for student project work**
- \* **role of faculty in facilitating such projects.**

Yes, it is mandatory for undergraduate and post graduate students to work on assigned project during their curriculum.

- a. For the under graduate students at third year a project work is assigned which is mandatory as per the curriculum of University to develop research aptitude, sharpen communication and presentation skills, to provide exposure to literature survey as well as research methodology. College provides all the necessary facilities and faculty provides constant guidance to the students during their project work.
- b. For under graduate students at second year as a part of University curriculum to do field work project on environmental science and topics are assigned to students in groups.

- c. Number of post graduate projects executed within the college are 135 and number of projects carried out by post graduate students in external institution are 18.
- d. Post graduate recognized teachers by University continuously provide guidance to the students in their PG research projects.

**2.3.14 Does the institution have a well-qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Yes, the college has a well qualified pool of human resource to meet the requirement of the curriculum. The number of teaching faculty appointed is as per the guidelines prescribed by University, AICTE and Pharmacy Council of India. The cadre-wise faculty available with the college is as follows:

**Table 2.7: Number of faculty in college**

Sr. no.	Designation	Number of faculty
1.	Professor	06
2.	Associate Professor	01
3.	Assistant Professor	19

**2.3.15 How are the faculty enabled to prepare computer-aided teaching-learning materials? What are the facilities available in the institution for such efforts?**

The faculty has collected the study material in the form of presentation, multimedia, PDF, animations videos which explain the basic process, general concept, journal articles and are used for various skill developments and restructure it as per requirement of subject. The institution is well occupied with library and well equipped computer lab which provide various Open Educational Resources (OERs) like e-journals, e-books, videos, educational CDs on virtual demonstration of experiments are also available for the referencing of study material so that the faculty also utilizes this facility for effective teaching.

**2.3.16 Does the institution have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching learning process?**

Yes, the college has mechanism to evaluate performance of teachers through feedback collected from students, parents and alumni.

**Process:**

**Step 1:** Hardcopy of feedback form is supplied to each student after every semester in class room.

**Step 2:** Students fill up forms individually and confidentially within a specified time and submits to academic committee.

**Step 3:** Academic committee confidentially scrutinizes the data obtained.

**Step 4:** Academic coordinator orally instructs the faculty regarding feedback and give necessary directions for the quality enhancement and improvement in subsequent years.

**Step 5:** Feedback received from parents and alumni's are utilized for improvement in various aspects like infrastructure facilities, curriculum and suggestions from them are taken into consideration for improvement in quality of teaching – learning process.

**2.3.17 Does the institution use telemedicine facilities for teaching-learning processes? If yes, cite a few instances.**

Not applicable.

**2.3.18 Does the institution utilize any of the following innovations in its teaching-learning processes?**

- \* **ICT enabled flex teaching system.**
- \* **Reflective learning.**
- \* **Evidence based medicines.**
- \* **Emphasis on development of required skills, adequate knowledge and appropriate attitude to practice medicine.**
- \* **Problem based learning (PBL).**
- \* **Student assisted teaching (SAT).**
- \* **Self directed learning and skill development (SDL)**
- \* **Narrative based medicine.**
- \* **Medical humanities.**
- \* **Drug and poison information assistance centre.**
- \* **Ayurveda practices.**
- \* **Yoga practices.**
- \* **Yoga therapy techniques.**
- \* **Naturopathy and its practices.**
- \* **Any other.**

Yes, the institution utilizes many of the innovation techniques in its teaching – learning process illustrates in the following ways:

**a. ICT enabled flex teaching system:**

- Faculty of our college makes consistent efforts to adopt innovative ICT based teaching method such as e-learning tools like LCD projector for PowerPoint presentation, virtual presentations, software and demonstration CDs.
- Learning modules are also used during lectures. Faculty is encouraged to use modern tools such as modern audio visual resources related to new era of technology. This has impact on out of way thing and integrated thinking of learner.

**b. Reflective learning:**

- College makes reflective learning by taking continuous efforts to intensify co-curricular activities by arranging State level and National level seminars and workshops.
- Efforts are being taken to arrange personality development program for personal and professional grooming of students. Guest lectures of industrial experts are arranged to promote industry-institute interactions. Expert lectures of academia are regularly arranged to getting exposure for reflective learning.
- Faculty is also encouraged and inspired to attend seminars, QIP and induction programs to keep them boost with contemporary needs. Reflective learning boost by the student's are inspired and motivated to participate in poster presentation and college level, zonal level, state and national level research competition.



- It's a privilege of proud that our student's of UG and PG do publish research papers in association with faculty members and awarded for their research contribution.

**c. Simulation:**

- The use of simulation in health care education is gaining popularity and is becoming a foundation for many undergraduate pharmacy programs. Most of the studies in the area of pharmaceutical chemistry simulation focus on recreating real-life situations to allow students to practice or gain skills in a safe environment. The purpose of this method is to highlight a new simulation teaching strategy and virtual reality (VR) simulation that capitalizes on the technological skills of students. The specific aim of this study was to examine the relationship between student learning and use of virtual simulated clinical experiences. The use of simulation, as compared to other teaching methods, shows improved health care students skills.
- Video demonstrations on animal experiments are carried out to give brief idea to students regarding pharmacological study of animals so as to create interest and to learn practical skills.

**d. Evidence based medicines:**

- Judicious use of best current available scientific research in making decisions about the care of patients. It is intend to integrate clinical expertise with research evidence and patient values. But such practice is not applicable for our college.

**e. Emphasis on development of required skills, adequate knowledge and appropriate attitude to practice medicine:**

- Health professionals like pharmacist plays an important role in delivering health care medicines under the practices.
- Faculty of our college can give updated knowledge , skills and attitude by giving clinical and practical knowledge, skills of medicines to jeopardize quality of the patients care by giving them industrial training, industrial visits and arranging various awareness seminars on medicines.

**f. Student assisted teaching:**

- Continuous efforts are made to promote students assisted teaching. Peer-teaching means people of similar social groupings who are not professional teachers helping each other to learn and learning themselves by teaching. Its success lies in the fact that peer-teachers and their students share a similar knowledge base and learning experience, otherwise known as “cognitive congruence”, which allows the peer-teachers to use language that their learners understand and to explain concepts at an appropriate level.
- Furthermore, peer-teachers and student-learners also share a “social congruence” because of their similar social roles and this explains why student learners feel more at ease with a peer- or near-peer teacher. In undergraduate education, peer-teaching serves as a transitional knowledge community that enables students to bridge the gap between being a university student and being a pharmacist.
- The identified subjective educational outcomes and student characteristics associated with peer-teaching include student satisfaction, student preference, student learning opportunities, student



participation, promotion of student leadership, and student-teacher satisfaction and confidence.

- Peer Assisted Learning (PAL) can assist the institution to meet external expectations for undergraduates and postgraduates to achieve competency and experience in both teaching and assessment, and may help to instil a life-long culture of teaching. PAL can also address specific gaps within the curriculum, providing additional student support in preparation for assessments.

**g. Self directing learning and skill development:**

- Self directing learning makes effective and implemented by following ways like: Students of UG carryout their fieldwork, review, research projects and PG students also carry out their projects in various pharmaceutical companies to enhance their practical skills to boost industry- institute interfacing.
- PG students seek guidance and interactions with UG students to promote their collaborative learning.

**h. Yoga practices:**

- College has arranged a guest lectures on 'yoga' practices consistently and give knowledgeable information to students for their implementation of skills of yoga in studies and in regular day to day life for stressless life.

**i. Any other:**

- Mandatory to undergo one month industrial training by undergraduate students.
- To enhance interactions and individual attentions to meet specific need of the students.
- Various career and personality development program are arranged for value added programs.
- All teachers ensures to provide efficient knowledge input to the students through innovative teaching practices like participation of most of students in subject-based problems during theory sessions, assignments, personal counseling, extra lectures including guidance for various research competitions, small projects and seminar presentations.
- Institution emphasizes and encourages multidisciplinary approach, integrated approach and innovative approaches to research so as to enhance the employability of the graduates, their knowledge and skills to current and in emerging areas and also be able to meet the challenges in a global workforce environment. The institution adopts multidisciplinary and innovative approaches in education and research to fulfill the emerging need of industry for development.
- The cooperative learning techniques promote student learning and academic achievement, increase student retention, enhance student satisfaction with their learning experience, help students develop skills in oral communication, develop students' social skills, promote student self-esteem, and help to promote positive race relations.
- Personality Development Retreats' could be held to enable the students to develop self-control, punctuality, sharing and caring respect for other faiths, cooperation and the value of silence (inner peace).

- **Incidental Learning Method:** An incident is an episode or experience in the life of an individual or group. The incidental approach has a very good point in its favor in that it can be used both inside as well as outside the classroom for value education purposes. It consists in identifying the wrong or right actions of an individual or group, either pre-planned to occur or observed by accident, and reprimanding or rewarding those concerned.
- **Evocation Approach:** The students are encouraged to make spontaneously free, non-rational choices, without thought or hesitation. It provides an environment which allows maximum freedom for students, and provides a provocative situation for which spontaneous reactions are elicited.
- **Analysis Approach:** The group or individuals are encouraged to study theory and practical related problems. They are asked to clarify questions, and identify possible answers. They are encouraged to determine the truth and evidence of purported facts, and arrive at decision, applying analogous cases, inferring and testing principles underlying the decision.

**2.3.19 Does the institution have an Electronic Medical Records facility, staffed by trained and qualified personnel? Is it used for teaching learning process?**

Not applicable.

**2.3.20 Does the institution have well documented procedures for case sheet writing, obtaining informed consent and the discharge process of the patients?**

Not applicable.

**2.3.21 Does the institution produce videos of clinical cases and use them for teaching-learning processes?**

The college does not produce videos of clinical cases. But college has purchased software related to preclinical pharmacology (X-Pharmacology) which helps in demonstrating techniques of animal handling and performing experiments related to isolated animal tissues and screening models of various drugs.

**2.3.22 Does the institution perform medico legal/post-mortem procedures with a view to train the undergraduate and post-graduate students in medico legal procedures?**

Not applicable.

**2.3.23 Does the institution have drug and poison information and poison detection centres? How are these used to train the students?**

College does not have drug and poison information and poison detection centre. But as a part of curriculum various poisoning related to drugs like symptoms and treatment of poisoning is taught to students.

**2.3.24 Does the institution have a Pharmacovigilance / Toxicology centre /clinical pharmacy facility / drug information centre/Centre for disease surveillance and control/ Prevention through Yoga/Promotion of positive**

health/Well-equipped Psychology Laboratory/ Naturopathic diagnostic centre, etc.?

Not applicable.

### 2.3.25 Laboratories / Diagnostics

\* **How is the student's learning process in the laboratories / diagnostics monitored? Provide the laboratory time table (for the different courses).**

\* **Student staff ratio in the laboratories / diagnostics.**

Students learning process in the laboratories are monitored regularly during practical hours and the outcome of practical is assessed by concerned faculty member and authorized in the record book. Student's attendance monitored during practical hours by concerned faculty. Student staff ratio in the laboratories is 20:1.

**Table 2.8: Laboratory time-table for department of pharmaceutics**

Room no.	Subject	Semester /year	Day	Time
12	Modern Dispensing Practices (MDP)	I/ F.Y.B.Pharm	Monday, Tuesday and Friday	1.45 pm - 5.15 pm
	Pharmaceutics-II	T.Y.B.Pharm		
09	Dosage Form Design (DFD)	II/ F.Y.B.Pharm	Tuesday, Wednesday and Friday	1.45 pm - 5.15 pm
	Pharmaceutics-I	I/ F.Y.B.Pharm	Monday, Tuesday and Wednesday	1.45 pm - 5.15 pm
	Physical Pharmaceutics-I	III/S.Y.B.Pharm	Monday, Wednesday and Friday	9.45 am - 1.15 pm
	Physical Pharmaceutics-II	IV/S.Y.B.Pharm	Monday, Wednesday and Friday	9.45 am - 1.15 pm
08	Pharmaceutical Microbiology	III/S.Y.B.Pharm	Thursday, Thursday and Friday	9.45 am - 1.15 pm
	Pharmaceutics-III	Final year B. Pharm	Monday, Thursday and Friday	1.45 pm - 5.15 pm

**Table 2.9: Laboratory time-table for department of pharmaceutical chemistry**

Room no.	Subject	Semester /year	Day	Time
28	Pharmaceutical Organic Chemistry-I (POC-I)	I/F.Y.B.Pharm	Monday, Thursday and Friday	1.45 pm - 5.15 pm
	Pharmaceutical Organic Chemistry-II (POC-II)	II/F.Y.B.Pharm	Monday, Thursday and Friday	1.45 pm - 5.15 pm
	Pharmaceutical Organic Chemistry-III	III/S.Y.B.Pharm	Tuesday, Wednesday and Thursday	9.45 am - 1.15 pm

	(POC-III)			
	Pharmaceutical Organic Chemistry-IV (POC-IV)	IV/S.Y.B.Pharm	Tuesday, Wednesday and Thursday	9.45 am - 1.15 pm
<b>24</b>	Pharmaceutical Biochemistry	III/S.Y.B.Pharm	Tuesday, Wednesday and Friday	9.45 am - 1.15 pm
	Pathophysiology and Clinical Biochemistry	IV/S.Y.B.Pharm	Monday, Wednesday and Friday	9.45 am - 1.15 pm
	Pharmaceutical Analysis-I	II/F.Y.B.Pharm	Tuesday, Wednesday and Thursday	1.45 pm - 5.15 pm
	Pharmaceutical Analysis-II	IV/S.Y.B.Pharm	Tuesday, Thursday and Friday	9.45 am - 1.15 pm
<b>28 and 24</b>	Pharmaceutical Inorganic Chemistry-I	I/F.Y.B.Pharm	Tuesday, Wednesday and Thursday	1.45 pm - 5.15 pm
<b>35</b>	Medicinal Chemistry-I	T.Y.B.Pharm	Monday, Wednesday and Thursday	9.45 am - 1.15 pm
	Medicinal Chemistry-II	Final Year B. Pharm	Tuesday, Wednesday and Friday	1.45 pm - 5.15 pm
<b>06</b>	Pharmaceutical Analysis-II	T. Y. B. Pharm	Monday, Tuesday and Thursday	9.45 am - 1.15 pm
	Pharmaceutical Analysis-III	Final Year B. Pharm	Monday, Wednesday and Thursday	1.45 pm - 5.51 pm

**Table 2.10: Laboratory time-table for department of pharmacology**

Room no.	Subject	Semester/year	Day	Time
<b>30</b>	Human Anatomy and Physiology-I	I/F.Y.B.Pharm	Wednesday, Thursday and Friday	1.45 pm - 5.15 pm
	Human Anatomy and Physiology-II	II/F.Y.B.Pharm	Monday, Wednesday and Friday	1.45 pm - 5.15 pm
<b>38</b>	Pharmacology-II	T.Y.B.Pharm	Monday, Tuesday and Friday	9.45 am - 1.15 pm
	Pharmacology-III	Final Year B. Pharm	Monday, Tuesday and Thursday	1.45 pm - 5.15 pm

**Table 2.11: Laboratory time-table for department of pharmacognosy**

Room No.	Subject	Semester /year	Day	Time
<b>30 and 32</b>	Pharmacognosy	II/F.Y.B.Pharm	Monday, Tuesday and Thursday	1.45 pm - 5.15 pm
	Pharmacognosy Phytochemistry-I	III/S.Y.B.Pharm	Monday and Tuesday	9.45 am - 1.15 pm

	Pharmacognosy Phytochemistry-II	IV/S.Y.B.Pharm	Monday, Tuesday and Thursday	9.45 am - 1.15 pm
32	Pharmacognosy-II	T.Y.B.Pharm	Wednesday, Thursday and Friday	9.45 am - 1.15 pm
	Pharmacognosy-III	Final Year B. Pharm	Tuesday, Wednesday and Friday	1.45 pm - 5.15 pm

**Table 2.12: Laboratory time-table of M.Pharm. (Sem-I)**

Room no.	Subject	Day	Time
41	Advanced Analytical Techniques	Tuesday, Wednesday and Thursday	9.00 am - 5.30 pm
68	Advanced Pharmaceutical Chemistry	Thursday	9.00 am - 5.30 pm
74	Advanced Quality Assurance Technique	Tuesday	9.00 am - 5.30 pm
71	Advanced Pharmacology	Thursday	9.00 am - 5.30 pm
65	Advanced Pharmaceutics	Thursday	9.00 am - 5.30 pm

**Table 2.13: Laboratory time table of M.Pharm. (Sem-II)**

Room no.	Subject	Day	Time
68	Advanced Medicinal Chemistry	Thursday	9.00 am - 5.30 pm
74	Pharmaceutical Validation	Thursday	9.00 am - 5.30 pm
71	Clinical Pharmacology	Thursday	9.00 am - 5.30 pm
65	Formulations and Development	Thursday	9.00 am - 5.30 pm

**2.3.26 How many procedures / clinical cases / surgeries are observed, assisted, performed with assistance and carried out independently by students in order to fulfill learning objectives?**

Not applicable.

**2.3.27 Does the institution provide patients with information on complementary and alternative systems of Medicine?**

Not applicable.

**2.3.28 What are the methods used to promote teaching-learning process in the clinical setting?**

Institutional Animal Ethics Committee (IAEC) is constituted for the approval of pre-clinical research protocols to promote pre-clinical research activity.

**2.3.29 Do students maintain log books of their teaching-learning activities?**

Yes, the students of undergraduate and post graduate course maintain their practical performance log book, record book and journals of practical for concerned individual subjects. Also postgraduate students maintain their project related note books.

**2.3.30 Is there a structured mechanism for post graduate teaching learning process?**

Yes, there is a structured mechanism for post graduate teaching learning process.

- a. The topics for dissertation to post graduate students are assigned by concerned guide, a recognized full time post graduate teacher, within one month of the beginning of second semester.
- b. Assessment of PG students consists of
  - In-semester continuous assessment.
  - End semester assessment. Both have equal weightage of 50% each.
- c. An In-semester assessment is continuous and five tests are conducted for full course of which one written test for 30 marks and four tests of five marks each. The concern teacher in consultation with the head of post graduate department decides the nature of question for written test. The variety of four tests conducted are such as term paper, seminar presentation, short quiz, assignments, extension work, open book test, mini research project, case study.
- d. Day to day assessment of journal, day to day performance, viva, etc. during practical is conducted.
- e. End semester examination is conducted by Savitribai Phule Pune University.
- f. Each tests is evaluated in terms of grades, result is declared with total grades and grade point average.
- g. Post graduate course is of 100 credits of which 52 credits in first year and 48 credits in second year.
  - Skill of students have been improved by giving seminar presentation by selecting topics from papers of specialization, research work envisaged for dissertation , seminar on recent trends in Pharmaceutical sciences, seminar on entire work of dissertation.
  - Demonstration and handling of sophisticated instruments and software's like molecular modeling of VLife sciences, etc.
  - For effective learning of students, some of the computer based software are downloaded from internet and are used during theory and practical.

**2.3.31 Provide the following details about each of the teaching programs:**

- \* Number of didactic lectures
- \* Number of students in each batch
- \* Number of rotations
- \* Details of student case study / drug study
- \* Nursing Care Conference (NCC)
- \* Number of medical / dental procedures that the students get to see
- \* Mannequins / Simulation / skills laboratory for student teaching
- \* Number of students inside the operation rooms at a given time

- \* Average number of procedures in the ORs per week, month and year
- \* Autopsy / Post-mortem facility

**Table 2.14: Number of students in each batch**

Sr. no.	Programme	Number of student per batch
1.	F.Y.B.Pharm	20
2.	S.Y.B.Pharm	20
3.	T.Y.B.Pharm	20
4.	Final B.Pharm	20
5.	M.Pharm. (All branches)	18

## 2.4 Teacher Quality

### 2.4.1 How does the institution plan and facilitate its faculty to meet the changing requirements of the curriculum?

- a. College facilitates its various faculties to attend faculty development programme to gain information about recent trends in technology and emerging areas of research.
- b. College promotes its faculty to participate in various seminars, workshops and conferences for development of teaching and research skills of faculty.
- c. Guest lecture of eminent persons from industry and other research organizations are being arranged for delivering recent and advanced knowledge about research and training to the faculty of institution.
- d. To meet the changing requirements of curriculum college deputed faculty to attend curriculum orientation programme, curriculum designing programmes like implementation of credit system, problem based learning, etc.

### 2.4.2 Does the institution encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

**Table 2.15: Diversity in faculty recruitment**

Department	% of faculty from the same institution	% of faculty from other institutions within the State	% of faculty from institutions outside the State	% of faculty from other countries
Pharmaceutics	3.84	7.69	23.07	00
Pharmaceutical Chemistry	00	23.07	19.23	00
Pharmacology	00	3.84	7.69	00
Pharmacognosy	00	11.53	00	00
<b>Total</b>	<b>3.84</b>	<b>46.13</b>	<b>49.99</b>	<b>00</b>

### 2.4.3 How does the institution ensure that qualified faculty are appointed for new programs / emerging areas of study? How many faculty members were appointed to teach new programs during the last four years?



Faculties are appointed on permanent basis by the college for new programs. College follows systematic process of recruitment. The selection procedure for appointment of qualified faculty involves the following steps:

- a. Approval of university for vacant positions and fixation of roaster for vacancy as per the norms of state government.
- b. Advertisement is published in leading news paper for vacant posts along with qualification, pay scale, and experience as per norms prescribed by AICTE, PCI, State Government.
- c. Applications from eligible candidates are invited and screened.
- d. Suitable candidates are called for interview. Interview is conducted by staff selection committee appointed by Savitribai Phule Pune University consisting of vice chancellor nominee, subject experts, reservation nominee, principal and management representative.
- e. The competent, passionate, experienced and suitable candidates are selected and appointment letters are issued to them.

**Table 2.16: Faculty appointed for new programmes**

Year	Number of faculty recruited									
	2010-2011		2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	02	01	--	--	01	--	02	--	01	01
<b>Total</b>	<b>03</b>		<b>00</b>		<b>01</b>		<b>02</b>		<b>02</b>	

#### 2.4.4 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the institution?

There is no Professor emeritus / Adjunct faculty / Visiting Professors on our college roll but following visiting faculty have visited the college and delivered lectures on various topics.

**Table 2.17: Visiting faculties delivered lecture in Year 2012-13**

Sr. no.	Guest faculty	Topic	Date
1.	Mr. Kundan Ingle, VLife Sciences	QSAR - A tool for drug design	12/10/2012
2.	Prof. Anil Khandare IBMRD, Vilad Ghat, Ahmednagar	Determination of price for pharmaceutical product	15/10/2012
3.	Prof. P. Gunjal P.D.V.V.P.F's Medical College, Ahmednagar	Introduction to fundamental immunology	16/10/2012
4.	Prof. Dr. Arun Ingale IBMRD, Vilad Ghat, Ahmednagar	Leadership, communication and interview techniques	20/10/2012
5.	Prof. S. S. Deshmukh, Pemraj Sarda College, Ahmednagar	Stereochemistry	30/10/2012
6.	Prof. Dr. Dilip Kumar Gund P.D.V.V.P.F's Medical College, Ahmednagar	AIDS awareness on occasion of World AIDS day	01/12/2012
7.	Prof. Mrs. S. P. Gunjal	AIDS awareness on occasion	01/12/2012

	P.D.V.V.P.F's Medical College, Ahmednagar	of World AIDS day	
8.	Mr. Pramod Karhad Akhil Bhartiya Vidyarthi Parishad, Ahmednagar	Principles of swami vivekanand	19/01/2013
9.	Dr. Satish Sonawane M.S.(Oncology) Savedi, Ahmednagar	Cancer awareness on World cancer day	04/02/2013
10.	Mr. R. B. Patil Astt. Professor, JSPM College of Pharmacy, Tathwade, Pune	Preparation for GPAT examination	20/02/2013
11.	Dr. P. K. Puranik Govt. College of Pharmacy, Aurangabad	Factorial design	16/03/2013

**Table 2.18: Visiting faculties delivered lecture in year 2013-14**

Sr. no.	Guest faculty	Topic	Date
1.	Mr. Rajeev Kumar Elsevier, Gurgaon	Training on science direct	27/06/2013
2.	Mr. Swami Kripaghanananda	Self confidence	06/07/2013
3.	Mr. Nitin Deore Astt. Commissioner, FDA, Ahmednagar	FDA rules and regulation	17/07/2013
4.	Mr. Abhishek Verma AD instrument, Senior Application Specialist	Animal surgery (rat) with cannulation for ECG and B.P. measurement	08/08/2013
5.	Mr. G. A. Shinde Chairman, Nirmitti Gramin Vikas Pratistan, Ahmednagar	Soft skill and personality development	12/08/2013
6.	Prof. Dr. J. N. Sangshetti Yashwantrao Chavan College of Pharmacy, Aurangabad	Publishing research paper in science journal	04/10/2013
7.	Mr. R. B. Patil Astt. Professor, JSPM College of Pharmacy, Tathwade, Pune	GPAT guidance	09/10/2013 and 07/02/2014
8.	Prof. S. S. Deshmukh, Pemraj Sarda College, Ahmednagar	Stereochemistry	21/11/2013
9.	Mr. Girish Kulkarni INDEEA, Ashya Foundation, Ahmednagar	Interview techniques	29/11/2013
10.	Dr. Prakash Garud	Cancer awareness	04/02/2014

	Garud Hospital and Cancer Centre, Ahmednagar		
11.	Mr. Sumit Gulve Jr. Executive, Baxter Pharmaceuticals, Aurangabad	Factorial design	05/05/2014

**Table 2.19: Visiting faculties delivered lecture in year 2014-15**

Sr. no.	Guest faculty	Topic	Date
1.	Mr. P. D. Thorat Drug Inspector, Central Drugs Standard control organization, Govt. of India, New Delhi	Career guidance in pharmacy	16/08/2014
2.	Dr. S. B. Gadre M.B.B.S. Medical Officer, P.D.V.V.P.F's Medical College, Ahmednagar	Causes and awareness about tuberculosis	19/08/2014
3.	Mr. G. A. Shinde Chairman, Nirmiti Gramin Vikas Pratistan, Ahmednagar	Soft skill and personality development	01/09/2014
4.	Prof. S. S. Deshmukh Pemraj Sarda College, Ahmednagar	Stereochemistry	15/09/2014 to 17/09/2014
5.	Mr. Amol Achrekar Professional Anthrologist, Pune	Personality development and opportunities for pharmacy in government sectors	10/10/2014
6.	Mr. R. B. Patil Astt. Professor, JSPM College of Pharmacy, Tathwade, Pune	GPAT guidance	10/10/2014
7.	Prof. Anil Khandare IBMRD, Vilad Ghat, Ahmednagar	Soft skill communication and interview techniques	6/11/2014
8.	Mr. Amol Kawade Edwise International Pvt.Ltd., Pune	Overseas education facilities and examination guidance	29/11/2014
9.	Prof. R. R. Kumbhar Pemraj sarda college, Ahmednagar	Emotional intelligence	17/12/2014
10.	Mr. Suresh Sawant Gulmohar road, Savedi, Ahmednagar.	Importance of yoga and meditation for healthy lifestyle	07/01/2015
11.	Mr. Rajesh Chavan Jeevan Sanjivani Manav	Personality development	14/01/2015

	Sanshodhan and Vikas Sanstha, Satara		
12.	Prof. Shailesh S. Deshmukh Pemraj Sarda College, Ahmednagar	Nucleophilic addition and condensation reaction	02/03/2015
13.	Prof. R. R. Navthar PDVVVF's Engineering College, Ahmednagar	Flow of fluid	10/03/2015
14.	Prof. A. R. Kachare PDVVVF's Engineering College Ahmednagar	Heat transfer	20/03/2015

**2.4.5 What policies/systems are in place to academically recharge and rejuvenate teachers? (e.g. providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)**

- College provides duty leave and financial assistance to attend various conferences, seminars, workshops and to present research papers.
- College promotes and motivates faculty members to publish research article in various national and international journals.
- College arranges various training programmes, faculty development programme and seminars on recent trends by inviting industry persons and eminent faculties to rejuvenate faculty members of institution.
- College provides facilities like internet, sophisticated instruments, equipments, library etc. for the research work to faculty members.
- College arranges in-service training for all faculties like workshop on "Fluency in English" and "Personality Development programme".

**2.4.6 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

**Table 2.20: Awards received by faculties**

Sr. no.	Name of faculty	Name of award	Year	Awarding organization
1.	Prof. Dr. R. L. Sawant	VLife best poster award	2013	VLife Sciences Technology Pvt. Ltd., Pune
2.	Prof. Dr. R. L. Sawant	Poster presentation competition (2 <sup>nd</sup> prize)	2011	VLife Sciences Technology Pvt. Ltd., Pune

**2.4.7 How many faculty underwent professional development programs during the last four years? (Add any other program if necessary)**

The institution promotes and encourages faculty members to attain various professional development programmes. The detail of same is as follows:

**Table 2.21: Professional development programmes attended by faculties**

Particulars	Number of faculty attended			
	2011-12	2012-13	2013-14	2014-15
Faculty development programs	02	01	13	02
Induction programs	01	01	02	05
Re-orientation programs	02	04	01	02
Refresher courses	01	00	00	00

**2.4.8 How often does the institution organize academic development programs (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

- College often organizes academic development programs in the form of seminars, workshops and conference.
- Many efforts are being made by college for improving teaching learning methods by providing facilities like internet, library, e-journal, study material etc.
- Guest lectures of qualified faculty and industry personnel are organized for curriculum development.

**2.4.9 Does the institution have a mechanism to retain faculty? What is the annual attrition rate among the faculty?**

Yes, the institution has a mechanism to retain faculty by providing various necessary facilities to the faculty members which is required for their regular development and academic improvement. Also, timely promotions are given to faculty along with various other benefits like group insurance policy, free hospital treatment, provident fund, transport facility, medical leave, and staff quarters.

**Table 2.22: Annual attrition rate of faculty**

Sr. no.	Academic year	Attrition rate
1.	2011-12	9.09%
2.	2012-13	---
3.	2013-14	---
4.	2014-15	---

**2.4.10 Does the institution have a mechanism to encourage**

**\* mobility of faculty between institutions /universities for teaching/research?**

**\* faculty exchange programs with national and international bodies?**  
**If yes, how have these schemes helped in enriching the quality of the faculty?**

Yes, faculty of college is being deputed as a resource person to deliver lectures in other institution and organization.

Institution also provides sophisticated instruments, animals and other laboratory facilities for research activity of faculty from other institutions.

**2.4.11 Does the institution have well defined career advancement policy for Health Science professionals? If yes, outline the policy.**

Yes, college has well defined career advancement policy for students through training and placement cell to improve and guide students for their career by following activities.

- a. Pharmaceutical industrial visits are arranged by college.
- b. Mentor is appointed to every student to identify their career interest through counseling and to encourage them for personal skill and soft skill improvement.
- c. Career guidance and training programmes are organized.
- d. Minor research projects are done by students to enhance their research interest in various fields of Pharmacy.
- e. Workshop on personality development and interview techniques for the students is conducted in college to add moral, professional and ethical values to their life.
- f. College arranges career advancement policy programmes for faculty and students, like soft skill training programme, fluency in English, etc.

**2.4.12 How does the institution create synergies with other PG institutions for generating required number of specialists and super specialists?**

Institution organizes various guest lecturers of specialist from other post graduate institutes as a part of curriculum development. College permits and guides to students of other post graduate institutions to perform practical in subjects like Microbiology, Pharmacology and Analytical Chemistry.

**2.4.13 Does the institution conduct capacity building programs / courses in subspecialties for its faculty?**

The college conducts the capacity building programme for faculty like workshop on fluency in English and personality development.

**2.5 Evaluation Process and Reforms**

**2.5.1 How does the institution ensure that all the stakeholders are aware of the evaluation processes that are in place?**

- a. Savitribai Phule Pune University has clearly described the examination pattern and evaluation processes for University and sessional examination in the course structure.
- b. College has copies of the same in academic, examination department and library which can be easily accessed by the students.
- c. Examination committee members in coordination with academic section prepare the examination calendar. Departmental meetings are held before the commencement of session to discuss their teaching goals in coordination with evaluation process.
- d. The details of evaluation methods are communicated to the students at the beginning of session. The students are made aware of university and internal examination pattern, evaluation methods, scheme of marking and eligibility conditions required for appearing the final examination.
- e. Probable commencement dates of university and college examinations are displayed on the notice board.
- f. Examination committee prepares the sessional time table, invigilation duties and seating arrangements for the students. The marks scored in sessional exams are displayed on notice board and the internal marks for their final examination are also shown to students. Sessional assessment

record is prepared and student's signatures are taken before communicating marks to university.

- g. The university periodically announces the dates of final examination and time-table which is communicated to all the staff and students via circulars and display on the notice boards. The university examination results are declared by university on their website. Students can view their results on university website, university examination report cards of the students are issued by university to college which is then distributed to the students.

**2.5.2 What are the important examination reforms implemented by the institution? Cite a few examples which have positively impacted the examination system.**

Examination reform committee has been formed by university and fixed norms and pattern of evaluation for improvement in examination processes. The college follows same and based on these internal and external examinations are conducted. The students are regularly evaluated at the time of practical by taking viva-voce. Assignments and additional tests are conducted for the students. Remedial tests are taken for slow learners at the time of remedial class. Faculty members provide, study material, question bank of their respective subjects to students which have positively impacted the examination outcome. Continuous evaluation process is adopted for post graduate students. College always looks after to ensure greater transparency in evaluation system. The college has made its own arrangements for conducting internal sessional, semester and supplementary examination. At the time of annual day best out going student award is given in each academic year for graduate and post graduate students. College also takes oral feedback from external examiners about the performance of the students.

**2.5.3 What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode adopted by the institution for the publication of examination results (e.g. website, SMS, email, etc.).**

The average time taken by university for declaration of examination results is approximately 40 to 45 days. The results are declared through university website. In case of any delay the issue is communicated to examination section of university through the college examination officer and Principal. List of topper students from the college with their percentage of marks is displayed on the notice board.

**2.5.4 How does the institution ensure transparency in the evaluation process?**

The college examination committee escort total evaluation process of college to make it completely transparent. The college display internal examination time table before the examination on notice board, same is circulated amongst teachers. The teacher set question paper of respective subjects and submit it to examination section. The xerox copies are done by the examination section. Examinations are held under invigilation by the staff members. The internal evaluation is done by respective subject teacher on the basis of class attendance, class assignment, student's behaviour and communication skill. The answer sheets after evaluation are shown to the students any conflict in the paper is than resolved by subject teacher. If the students are not satisfied it



is discussed with examination section and rectified. The answer sheets are then submitted to the examination section and mark sheet is displayed on notice board.

One sessional examination is conducted as per the examination scheme for each semester. The students who secure less than 40% mark in the sessional examination or unable to appear for the scheduled sessional examination may be permitted for the sessional examination in the same semester which is approved by college examination committee. At the end of the semester the internal marks are entered in mother register and are signed by concerned subject teacher and students.

The Savitribai Phule Pune University now adopted the barcode system for external theory examination to make the evaluation process more transparent. To ensure transparency, university has a provision for students to get photocopies of their answer sheets of the end semester examination along with marks scored.

#### **2.5.5 What are the rigorous features introduced by the university to ensure confidentiality in the conduct of the examinations?**

The rigorous features by the university to ensure confidentiality in the conduction of examination are as follows:

- The institution follows the guidelines set by university for conducting annual theory examinations.
- College examination officer is appointed by the university
- Before the conduction of exam, external senior supervisor appointed by the University for the observation of whole examination.
- Internal senior supervisor and junior supervisor are appointed for the constant observation of examination process in examination hall.
- University password is sent by the university before 30 min. of the commencement of exam.
- Online release of question paper.
- Verification by subject expert.
- Paper is printed in presence of college examination officer, external and internal senior supervisor Principal.
- Flying squad visits the exam centre.
- The answer scripts are submitted to university every day after the completion of respective exam.
- The theory and practical examination marks are entered online and hard copy of the same with the signature of the evaluators are sent to university.
- Bar coding system is now employed by university. Answer sheets incorporated with bar codes to maintain confidentiality.

#### **2.5.6 Does the institution have an integrated examination platform for the following processes?**

- \* **pre-examination processes – Time table generation, hall ticket, student list generation, invigilators, squads, attendance sheet, online payment gateway, online transmission of questions and marks, etc.**
- \* **examination process – Examination material management, logistics, etc.**
- \* **post-examination process – Attendance capture, auto processing, result processing, certification, etc.**

Yes, the institution has an integrated examination platform for the following major phases of examination processes

**Phase 1: Pre Examinations Phase**

This phase typically consists of activities like notification of examination centers, fee structure, examination schedules, issue of examination application forms, generation of hall tickets, setting questions papers and online release of question paper at the time of examination.

**Phase 2: Examination Phase**

This phase typically involves downloading and xeroxing of question paper, conduct of examinations, collection of answer books, and dispatch to respective CAP center.

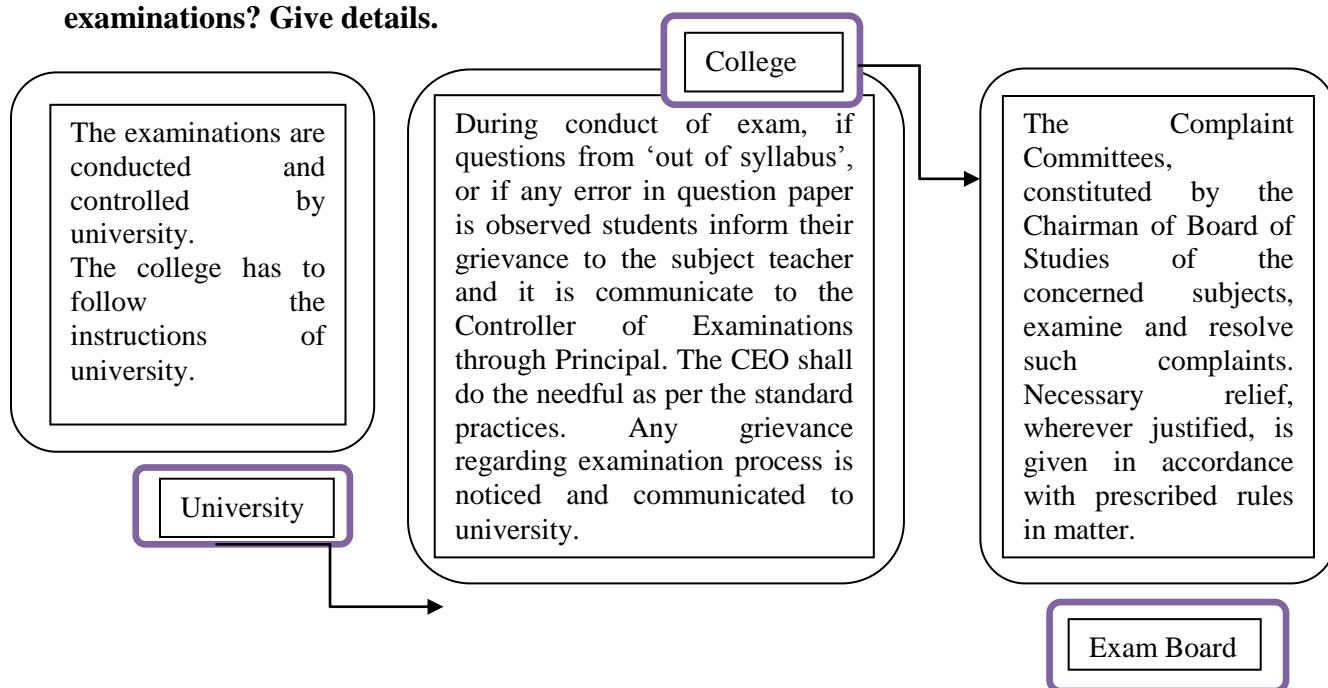
**Phase 3: Post Examination Phase**

This phase typically involves evaluation of answer sheets, results processing, revaluation, degree and convocation.

**2.5.7 Has the university/institution introduced any reforms in its evaluation process?**

University recently adopted barcode system and online delivery of question paper. Internal marks of theory and practical examinations are submitted online to university. External practical examination marks are also submitted to university online immediately after examination. This has reduced the time taken for overall evaluation process and also declaration of results. University recommended credit point evaluation system at post graduate level. For the bottom line student's college takes more efforts. There is continuous teaching and learning, continuous evaluation by conducting tutorial and remedial classes which improves the performance of the students at academic level and help for smoothing the examination process. Continuous evaluation process is done at the postgraduate level.

**2.5.8 What is the mechanism for redressal of grievances with reference to examinations? Give details.**



**Fig 2.1: Mechanism for redressal of grievances with reference to examination**

**2.5.9 Does the institution have a Manual for Examinations and if yes, does it specifically take cognizance of examination malpractices by students, faculty and non-teaching staff?**

Yes, college has examinations manual and it specifically take cognizance of examination malpractices by students, faculty and non-teaching staff. This manual is intended to provide guidance to supervisory personnel in planning and conducting examination and used in conjunction with rules and regulations of Savitribai Phule Pune University.

**2.5.10 What efforts have been made by the university to streamline the operations at the office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

The Board of Examinations of Savitribai Phule Pune University is the statutory authority for conducting the examinations and making policy decisions in regard to organizing and holding examinations, improving the systems of examinations. Controller of Examinations is the Member-Secretary of Board of Examinations. Controller of Examination office includes various sections. Each section has a Deputy Registrar and Assistant Registrar.

**Coordination Section**

- To send the appointment letters to paper-setters, examiners, moderators and dissertation referees.
- To prepare schedule of examination of each half of the academic year.
- To make arrangements for setting of question papers.
- Make arrangement for appointments of senior supervisors, vigilance squads, and custodians etc.
- To fix venue of the Central Assessment Program (CAP) and to appoint the Directors of the same.
- To prepare list of examiners, moderators for the purpose of Central Assessment Program.

**Strong Room**

- Receiving manuscript of question papers from paper-setters.
- Coding of manuscripts of question papers.
- Sending online question papers.
- Solve the queries raised in the question papers during examination period. Prepare sets of question papers for various reasons.

**Scrutiny and Tabulation Unit**

- Collection of examination forms from the colleges scrutinizes and dispatch to computer section for future processing.
- Distribution of students lists, summary and admit cards (hall ticket).
- Prepare a time-table for practical examinations and send to colleges.
- Deal with the queries, if any, regarding admit cards, seat numbers etc.
- To make availability of the question papers, model answers, scheme of marking etc to the Central Assessment Program.
- Results verification, Publishing and distribution to concerned colleges.
- To make necessary corrections if any in the examination result on the basis of revaluation, eligibility and unfair means etc.

**Certificate Section**

- Receipt of application and processing for various certificates from students.

- Conduct of convocation activity.
- Certificate verification and international document verification.

**2.5.11 What are the efforts of the institution in the assessment of educational outcomes of its students? Give examples against the practices indicated below:**

- \* **Compatibility of education objectives and learning methods with assessment principles, methods and practices.**
- \* **Balance between formative and summative assessments.**
- \* **Increasing objectivity in formative assessments.**
- \* **Formative (theory / orals / clinical / practical) internal assessment; choice based credit system; grading / marking.**
- \* **Summative (theory / orals / clinical / practical).**
- \* **Theory – structure and setting of question papers – Essays, long answers, shorts answers and MCQs etc. Questions bank and Key answers.**
- \* **Objective Structured Clinical Examination (OSCE).**
- \* **Objective Structured Practical Examination (OSPE).**
- \* **Any other.**

The college has made efforts for the assessment of educational outcomes of its students.

**Table 2.23: Efforts of institution in the assessment of educational outcomes**

<b>Sr. no.</b>	<b>Efforts of the institution/ college</b>	<b>Outcomes</b>
<b>1.</b>	Remedial tests	To improve slow learners and weaker students
<b>2.</b>	Weekly mentoring / counseling meetings	To implement academic excellence and to discuss and improve learning abilities and also to avoid all discrepancies
<b>3.</b>	Assignments	To improve appraisal of the student
<b>4.</b>	Internal and improvement examination	To learn more effectively and to ensure academic excellence
<b>5.</b>	Feedback from students and parents	To avoid all types of discrepancies
<b>6.</b>	Staff meetings	To resolve all types of academic and personal issues by students as well as staff
<b>7.</b>	Provide chapter wise question banks	For preparation of internal and external examination preparation and to maintain excellency in theory as well as practical

Different assessment by direct and indirect tools are used to judge performance of student includes unit test, open book test, student seminars, annual report preparation, counseling meetings, departmental meeting, feedback from the students, regular journal and record books assessment, regular viva voce at the time of practical, students are also encouraged to participate in quiz, seminar presentation to improve educational outcome.

### 2.5.12 Describe the methods of prevention of malpractice, and mention the number of cases reported and how are they dealt with?

The college follows guidelines stated by Savitribai Phule Pune University for conduct examination. For prevention of malpractice in examination systems following measures are taken:

- Students are made aware about all the instructions before commencement of exam.
- Hoarding about the instructions to candidate is displayed outside the examination section.
- Security guards are appointed during a period of examination to avoid discrepancies.
- Mobile phones are strictly prohibited for students and also for invigilator.
- Internal squad is appointed.
- Security check of students is performed individually before entering in examination hall.
- Candidates are forbidden from taking any material into the examination hall that can be used for malpractice at the time of examination.
- Examination scheduled is also communicated to nearby police station so as to their person available at the time of examination.

Not a single copy case is reported till date.

## 2.6 Student Performance and Learning Outcomes:

### 2.6.1 Has the institution articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

Yes, college has articulated Graduate Attributes after completion of graduation and post graduation courses. The graduate attributes are the qualities that prepare graduates as agents of social good in an unknown future. The college provides comprehensive education to students by inculcating qualities of competence, confidence and excellence. Our graduate attributes are honesty, leadership quality, holistic development, communication and scientific skills, humanitarian values and concrete knowledge of latest trend. The college supplies all the infrastructures, necessities and overall the educational environment to ensure the attainment of these attributes by the students. Also each program in the institute has its clearly defined learning outcomes which are aligned with the program educational objectives. Most of these are common across departments and a few of these are program specific.

**Table 2.24: Graduate attributes assessment tools, implementation and outcomes**

<b>Graduate attributes</b>	<ul style="list-style-type: none"> <li>• Pharmacy knowledge</li> <li>• Decision making and applicability</li> <li>• Professional identity and eligibility</li> <li>• Investigation of complex problems</li> <li>• Usage and handling of modern tools</li> <li>• Community pharmacy and Society</li> <li>• Educational environment and sustainability</li> <li>• Ethics</li> <li>• Individual holistic development and teamwork</li> <li>• Communication and scientific skills</li> </ul>
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	<ul style="list-style-type: none"> <li>• Lifelong learning</li> <li>• Leadership quality</li> </ul>
<b>Assessment tools</b>	<p><b>Direct assessment tools:-</b></p> <ul style="list-style-type: none"> <li>• Tutorial assignment writing</li> <li>• Remedial class tests</li> <li>• Mid-semester test</li> <li>• End-semester result analysis</li> </ul> <p><b>Indirect assessment tools:</b>  Monthly and annual academic report preparation  Monthly counseling of students  Department Meeting: Structuring of course planner, regular check on laboratory record books, regular checking of working status and maintenance of laboratory instruments</p> <ul style="list-style-type: none"> <li>• Feedback forms on curriculum and faculty from students</li> <li>• Feedback from alumni</li> </ul> <p>Staff meeting for regular check on improvement and consistency of curriculum and other activities</p>
<b>Implementation of mechanism for assessment</b>	<ul style="list-style-type: none"> <li>• Assignments and remedial tests writing are applied in those subjects in which more number of backlogs are occurred by students and improvement is seen in further evaluation</li> <li>• Interpret ideas, thoughts and feelings communicated through reading, listening and aesthetic forms of communication etc.</li> <li>• Counseling of students is done individually</li> <li>• Remedial classes are arranged for slow learners</li> <li>• Explain appropriate assessment techniques for assessing the learning outcomes of educational or training programs</li> <li>• Design the instructions that meets the individual learner's needs</li> <li>• Explain techniques that can be used to enhance student learning interest</li> <li>• Given performance-based criteria, identify ways to provide constructive feedback to learners</li> <li>• Develop strategies to promote professional behavior</li> </ul> <p>Explain the system of ethical reasoning employed in arriving at a particular ethical decision</p>
<b>Evidence based outcomes</b>	<ul style="list-style-type: none"> <li>• Practice self managed continuing professional development with the goal of improving the quality of one's own performance through self-assessment and change.</li> <li>• Ability to select and apply a range of practical skills to design and carry out minor research projects and innovative best practices</li> <li>• Holistic personal and professional development</li> </ul>



	<ul style="list-style-type: none"> <li>• Develop research and independent learning skills for upgradation of knowledge and use this basic knowledge to establish plans for improvement</li> </ul> <p><b>Thinking abilities:</b></p> <ul style="list-style-type: none"> <li>• Development and enhancement of communication skills that must be integrated throughout the curriculum.</li> </ul> <p><b>Responsible use of values and ethical principles:</b></p> <ul style="list-style-type: none"> <li>• The student shall recognize different value systems while holding strongly to his/her own ethical principles.</li> </ul> <p><b>Self-learning abilities and habits:</b></p> <ul style="list-style-type: none"> <li>• The student shall effectively self-assess and satisfy learning needs on an ongoing basis.</li> </ul> <p><b>Social interaction:</b></p> <ul style="list-style-type: none"> <li>• The student shall demonstrate effective interpersonal and intergroup behaviors in a variety of situations; will elicit the views of others and seek appropriate conclusions, develop leadership abilities</li> </ul> <p><b>Manage the pharmacy:</b></p> <ul style="list-style-type: none"> <li>• Student should practice pharmacy management using principles and skills that are needed to function effectively in a competitive, rapidly changing professional environment.</li> </ul>
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**2.6.2 Does the institution have clearly stated learning outcomes for its academic programs/departments? If yes, give details on how the students and staff are made aware of these?**

Yes, the institution has clearly stated learning outcomes for its academic programs that are designed based on the curriculum. Students are made aware of these outcomes by giving greater emphasis on providing overall in depth knowledge regarding individual course. Learning outcomes are encouraged through participation of students in a wide variety of activities including lectures, seminars, workshops, laboratory-based practical, external industrial visits and web-based learning. Students are also given greater exposure to usage and handling of modern tools, communication and self-assessment ability, decision making and applicability.

Staff members are made aware of the learning outcomes by attending various course related seminars/workshops. The propagation of Programme Educational Objectives to all the stakeholders of the program is done through faculty/ department meetings, orientation programs and parent meets.

**2.6.3 How are the institution's teaching-learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

The institution has adopted various innovative teaching practices such that the teaching, learning and assessment strategies of the college help the students in the achievement of intended learning outcomes. The students are provided



several opportunities to augment their potential for the development of personal skills, moral values and educational culture through its curricular and co-curricular activities. The college ensures instilling of strong attitude in the learners for the development of various graduate attributes to face challenges in professional and social life as shown below.

- Devise an effective plan for balancing professional and personal life.
- Display integrity in professional relationships and actions.
- Exercise practice leadership.
- Use effective educational techniques in the design of all educational/training activities.
- Design an assessment strategy that appropriately measures the specified objectives for education or training and fits the learning situation.
- Use public speaking skills to speak effectively in large and small group situations.
- Identify personal strengths, weaknesses, barriers, and preferences in all modes of communication.
- Identify strategies to deal with slow learners in the practice setting.
- Identify appropriate exercises for laboratory experiences.
- Provide appropriate and timely feedback to improve performance.

#### **2.6.4 How does the institution ensure that the stated learning outcomes have been achieved?**

The institution has prepared and planned a system of well defined learning objectives with the help of direct and indirect assessment tool so as to ensure that the stated learning outcomes have been achieved.

- **Direct assessment:** through tutorial assignments, remedial class tests, mid semester exams, synopsis, viva-voce which are conducted routinely.
- **Indirect assessment:** through monthly and annual academic report preparation, personalized counseling of students, feedback from employers, alumni, visitors and parents.

An effective evaluation process has been adopted to facilitate the continuous improvement of the students on the basis of evidence based outcomes as:

- a. Extensive personal support is given to the students throughout the programme to develop skills like self-learning abilities, responsible use of values and ethical principles, holistic personal and teamwork development, communication and lifelong learning, decision making and applicability.
- b. Encourage student's participation in various competitions and co-curricular activities.
- c. Students are permitted to perform their research projects in the pharmaceutical industries to gain latest technology based knowledge and well adopt with job environment,
- d. Students also present and/or publish their research work in conferences, seminars or renowned peer reviewed journals.
- e. Effective careers advice and support available throughout the programme.

## CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

### 3.1 Promotion of Research

**3.1.1 Is there an Institutional Research Committee which monitors and addresses issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Yes, the college has a Research Committee which monitors and addresses issues related to research.

**Table 3.1: Constitution of college research committee**

Sr. no.	Name	Designation	Post
1.	Prof. Dr. R. L. Sawant	Professor	Chairman
2.	Prof. Ms. J. B. Wadekar	Assistant Professor	Member
3.	Prof. A. W. Ambekar	Assistant Professor	Member
4.	Prof. M. A. Raskar	Assistant Professor	Member
5.	Prof. G. R. Godge	Assistant Professor	Member

#### Recommendations:

1. Research committee is aware of timely suggestion regarding the improvement of quality in research, purchase of research based instrument.
2. Allocation of seminar, conferences, workshop addressing the latest issues about pharmacy.
3. To monitor, design and plan research issues at graduate, postgraduate and doctoral level.
4. To insist teaching staff for applying to research grants from various funding agencies such as AICTE, UGC and University.
5. Students are filliped to participate for innovative research project competition "Avishkar" for showcasing their logical and creative side which is aligned by respective staff members.
6. Efforts are made to give firsthand knowledge about vibrant campus of industry enforcing them to think beyond the curriculum.
7. To maintain scientific temper with the institute expert talks are arranged.
8. To justify our institute's breathe word "*We Pharmacist Caring the People Globally*" every possible efforts were made by developing quality pharmacrat to serve for pharmacy profession and noble cause for society.

#### Impact:

1. Research based instruments like Epoch Microplate Spectrophotometer (BioTek), Molecular Modeling Software (VLife MDS), Carousel 6 Plus Reaction Station (Radleys) were procured under Research Promotion Scheme (RPS) funded by AICTE, New Delhi while Microwave (Catalyst), Digital Biological Microscope (Motic – DMWB1-223) and UV-visible Spectrophotometer (Jasco – V-630) were purchased in research grant received from University.
2. Organized 9 seminar/ conferences / workshop and 1 staff development program at state and national level.
3. Number of research publications by faculty were gradually increased in various national and international peer reviewed journals with impact factor.

4. Students of our college have willingly participated and presented near about 47 posters merely within last three years in annual intra-university and inter-university innovative research project competition “Avishkar”. Amongst them 10 research projects have been recognized at zonal level and 1 at state level.
5. It hoist in confidence building, improvising presentation skills, fluency in speaking and personality development of staff and students.
6. Total research funds received through grants from AICTE and University is ₹ 45.60 lakhs.

**3.1.2 Does the institution have an institutional ethics committee to monitor matters related to the ethics of inclusion of humans and animals in research?**

Yes, the college has institutional animal ethical committee (IAEC) approved under CPCSEA, New Delhi.

**Table 3.2: Constitution of college animal ethical committee**

Sr. no.	Name of members	Designation	Qualification	Discipline	Organization to which member belongs
1.	Dr. S. V. Puranik	Main Nominee	M.V.Sc	Vet. Gynecology	Retd. Govt. Servant, Aurangabad
2.	Dr. M. B. Nandanwar	Link Nominee	M.V.Sc FASc	Vet. Pathology	Wockhardt Ltd., Aurangabad
3.	Prof. Dr. P. Y. Pawar	Principal and Chairman	M. Pharm., Ph.D.	Pharmaceutical Chemistry	PDVVPF's COP, Ahmednagar
4.	Prof. Dr. P. M. Gaikwad	Member Scientist	M. Pharm., M.Phil., Ph.D.	Pharmacology	PDVVPF's COP, Ahmednagar
5.	Prof. Dr. R. L. Sawant	Member Scientist	M. Pharm., Ph.D.	Pharmaceutical Chemistry	PDVVPF's COP, Ahmednagar
6.	Dr. S. S. Gaikwad	Veterinarian	M.V.Sc.	Pharmacology	Dog and Cat Clinic, Ahmednagar.
7.	Prof. H. J. Pagar	Member Scientist	M. Pharm. Pharmacology	Pharmacology	PDVVPF's COP, Ahmednagar
8.	Dr. R. K. Padalkar	Member Scientist (outside institute)	MSc. Ph.D.	Biochemistry	Pad. Dr. Vikhe Patil Medical College and Hospital, Ahmednagar
9.	Mr. S. M. Salve	Nonscientific Socially Aware Member	MSW.D.L.L. and L.W.	Social Worker	Pad. Dr. Vikhe Patil Medical College and Hospital, Ahmednagar

**3.1.3 What is the policy of the university to promote research in its affiliated / constituent colleges?**

Our college is affiliated to Savitribai Phule Pune University and has the following policies to promote research in its affiliated / constituent colleges:

- a. Strengthen affiliated colleges to be recognized as a brand of research and education on global map.
- b. Creating healthier environment for research activities by providing
  - Personal grant to teachers
  - Assistance to young scientist

- Travel grant for teacher/young teachers for attending seminar/conference/workshop
  - Forwarding of various proposals received from colleges to UGC.
  - Circulation of circulars received from UGC to all affiliated colleges and recognized institutes.
  - Forwarding major/minor research proposals to various funding agencies.
  - Constitution of research awards.
- c. Improving physical infrastructure to best suit for increasing needs.
- d. To enable teachers at University and college level by creating opportunities to undertake research and provide suitable funding for the same.
- e. To provide students opportunities to undertake research projects by implementing Avishkar – Research Project Competition Scheme in an effective manner.
- f. To undertake research in front line areas and establish University in first hundred institutes in the world.
- g. Approval of colleges as study centre for Ph.D. work.

**3.1.4 What are the proactive mechanisms adopted by the institution to facilitate the smooth implementation of research schemes/projects?**

- a. **Externally funded projects (both government and private agencies):**
- \* **advancing funds for sanctioned projects.**
  - \* **providing seed money.**
  - \* **simplification of procedures related to sanctions/purchases to be made by the investigators.**
  - \* **autonomy to the principal investigator/coordinator for utilizing overhead charges.**
  - \* **timely release of grants.**
  - \* **timely auditing.**
  - \* **submission of utilization certificate to the funding authorities.**
  - \* **writing proposals for funding.**
  - \* **any training given for writing proposals.**

A project entitled “Design of Novel Dihydrofolate Reductase Inhibitors as Potential Anti-microbial and Anti-cancer Agents” has been sanctioned to Prof. Dr. R. L. Sawant as principal investigator under Research Project Scheme (RPS) by AICTE.



**b. Institution sponsored projects:**

- **Proportion of funds dedicated for research in the annual budget.**
  - ✓ Yes, the college has adequate provisions in the annual budget for funds required for research.
- **Availability of funding for research /training/resources.**
  - ✓ Adequate funds are sanctioned to the departments for procuring chemicals, animals, apparatus, and equipments for research.
  - ✓ Providing research fund for staff as well as students to attend seminars, conferences and workshops.
- **Availability of access to online databases.**
  - ✓ Computer, internet, printer, xerox and fax facility are being provide to the students.
  - ✓ Computer centre provides facility to the students to access online databases as well as e-journals.
  - ✓ Backup are taken for books and e-journals in the form of CD-ROMs.

**3.1.5 How is multidisciplinary / interdisciplinary / transdisciplinary research promoted within the institution?**

\* **between/among different departments / and**

\* **collaboration with national/international institutes / industries.**

• **Between/among different departments**

- ✓ Being a recognized higher learning and research centre, the college ensures the optimal use of various equipments and research facilities by its staff and students by providing them flexibility to visit and perform their research and project work in any department to promote interdisciplinary research.

- ✓ Research committee of the college identifies the thrust research area of each department. Potentially transformative, diverse and skilled set of researchers/faculty members of the college are brought together and interacted with each other through research committee and motivated them for preparation of research protocols/proposals laying emphasis on promotion of interdepartmental and interdisciplinary research.
- ✓ Emphasizing and selecting interdisciplinary theme for seminars, workshops and conferences.
- ✓ Impact of above efforts resulted in completion of 8 research projects and 85 publications till date.

**Table 3.3: Impact of interdisciplinary research**

Sr. no.	Title of research	Name of principal Investigator	Name of co-investigator	Disciplines involved
1.	Microwave mediated synthesis of Hantzsch esters analogues of potential biological interest	Prof. Dr. R. L. Sawant	Prof. Ms. J. B. Wadekar and Prof. A. W. Ambekar	Pharmaceutical Chemistry, Pharmacognosy and Pharmaceutics
2.	Preparation and evaluation of transdermal drug delivery system of anti-hypertensive drug	Prof. K. N. Tarkase	Prof. A. W. Ambekar	Pharmaceutics and Quality Assurance
3.	Design and evaluation of polyherbal formulation for the antihyperlipidemic activity	Prof. A. P. Deshpande	Prof. B. V. Bhagat	Pharmacognosy and Pharmaceutics
4.	Antiasthmatic potential of <i>Cassia auriculata</i> roots	Prof. Ms. J. B. Wadekar	Prof. A. W. Ambekar	Pharmacognosy and Pharmaceutics
5.	Formulation and evaluation of ethosomes for transdermal delivery of antiviral drugs	Prof. A. W. Ambekar	Prof. Ms. J. B. Wadekar	Pharmaceutics and Pharmacognosy
6.	Formulation, evaluation and optimization of table-in-tablet of outer immediate release and inner sustain release (floating tablet) using $3^2$ factorial design	Prof. K. N. Tarkase	Prof. Mrs. M. K. Tarkase and Prof. M. D. Dokhe	Quality Assurance Techniques and Pharmaceutical Chemistry
7.	Design and evaluation of hepatoprotective activity of polyherbal mixture in experimental animals	Prof. A. P. Deshpande	Prof. B. V. Bhagat	Pharmacognosy and Pharmaceutics
8.	Photofluorimetric estimation of polycyclic aromatic hydrocarbons and their derivatives	Prof. M. A. Raskar	Prof. G. R. Godge	Pharmaceutical Chemistry and Pharmaceutics

from pharmaceuticals and food elements			
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- **Collaboration with national/international institutes / industries.**  
Collaboration with other institutes procreates 71 publications till date.

### 3.1.6 Give details of workshops/ training programs/ sensitization programs conducted by the institution to promote a research culture in the institution.

Following are the details of workshops and training programs conducted by the institution to promote a research culture.

**Table 3.4: List of workshops/ training programs/ sensitization programs conducted by the institution**

Sr. no.	Date	Programme topic	Funding agency
1.	19 <sup>th</sup> Dec. 2009	One day seminar on “Clinical Trials – Current Scenario”	University of Pune, Pune
2.	8 <sup>th</sup> - 9 <sup>th</sup> Jan. 2010	Two days workshop on “Drug Design Techniques: Fundamentals and Future (DDTFF-2010)”	University of Pune, Pune
3.	4 <sup>th</sup> Jan. 2011	One day seminar on “Quality Assurance and Pharmaceutical Regulatory affairs”	University of Pune, Pune
4.	5 <sup>th</sup> Jan. 2011	One day seminar on “Lead molecule from Natural Product”	University of Pune, Pune
5.	10 <sup>th</sup> - 22 <sup>nd</sup> Jan. 2011	Two weeks Staff Development Program (SDP) on “Recent Advances in Drug Design Discovery”	AICTE, New Delhi
6.	2 <sup>nd</sup> Mar. 2012	One day seminar on “Advances in experimental Pharmacology”	University of Pune, Pune
7.	3 <sup>rd</sup> Mar. 2012	One day seminar on “Pharmaceutical Quality by Design”	Funded by Institute
8.	5 <sup>th</sup> Jan. 2013	One day seminar on “Generic Drug Product development Industry Overview”	University of Pune, Pune
9.	26 <sup>th</sup> - 27 <sup>th</sup> Dec. 2013	Two days National level seminar on “Computational Chemistry in Anticancer Drug Research”	AICTE, New Delhi
10.	20 <sup>th</sup> - 21 <sup>st</sup> Nov. 2014	Two days seminar on “Pharmaceutical Product Development and Technology Transfer”	Savitribai Phule Pune University, Pune

### 3.1.7 How does the institution facilitate researchers of eminence to visit the campus? What is the impact of such efforts on the research activities of the institution?

Efforts are made to invite galaxy of renowned researchers and academicians by organizing various seminars, conferences, symposium, Staff Development Programme (SDP) and guest lectures on current topics which will be fruitful to students and staff in order to furnish academic and industrial knowledge.

#### Impact:



- Fruitful impact of such activities is to serve as a platform for staff and students by gaining and exchanging innovative research ideas to convert them into practicability.
- It is also helpful for increasing the number of publications with good impact factor.
- It maintains research environment in the institute.
- Minimization of gap between the academics and industry.

**3.1.8 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

Provisions are being made by reserving sufficient amount of budget to be spending upon research activities for smooth running and the details for the same are summarized below:

**Table 3.5: Expenditure, financial allocation and actual utilization of research budget (₹ in lakhs)**

Sr. no.	Major head of expenditure	2010-11	2011-12	2012-13	2013-14
1.	Field Work/ Travel	2.10	2.10	2.22	2.16
2.	Chemicals/Glassware	10.98	19.38	13.04	5.13
3.	Contingency	1.92	2.16	2.61	2.76
4.	Equipment	25.48	23.54	30.1	15.00
5.	Books and Journals	12.00	17.75	17.35	10.25

**3.1.9 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.**

Yes, Savitribai Phule Pune University has earmarked funds for promoting research in its affiliated colleges by adhering to the criteria especially emphasizing on research grants, grants for purchasing of instruments/equipments, innovation, avishkar.

**3.1.10 Does the institution encourage research by awarding Postdoctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the institution and other sources.**

No, the institution does not have Postdoctoral Fellowships/Research Associateships.

**3.1.11 What percentage of faculty have utilized facilities like sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the institution monitor the output of these scholars?**

The dedicated staff members besides their academic schedule are constantly engaged in accomplishing research activities. Moreover, they are utilizing their vacation (summer/winter/holidays) period for completion of research projects. During this period, they are availed with sophisticated instruments and animal facility within the institution 24 × 7 to conduct their higher research. Hence, sabbatical leave is not as such desired by the faculty for their research activities.

**3.1.12 Provide details of national and international conferences organized by the institution highlighting the names of eminent scientists/scholars who participated in these events.**

**Table 3.6: Details of conferences organized by the college**

Sr. no.	Theme of seminar/workshop/SDP	Name of eminent scientists/scholars participated	Address
	<b>2009-2010</b>		
1.	One day seminar on “Clinical Trials – Current Scenario” (19 <sup>th</sup> Dec. 2009)	Dr. Ravindra B. Ghooi	Dean, Bilcare Research Academy, Pune
		Mr. Sanjay M. Patil	Assoc. Manager, Clinical Operation Eisai Clinical Research Mumbai
		Mr. Atul A. Wagle	Q. A. Associate, Trident Clinical Research India Pvt. Ltd., Mumbai
2.	Two days workshop on “Drug Design Techniques: Fundamentals and Future (DDTFF-2010)” (8 <sup>th</sup> and 9 <sup>th</sup> Jan. 2010)	Dr. Manish S. Bhatia	Vice Principal, Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, PIN 416013
		Dr. Kishore S. Jain	Principal, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
		Dr. Kundan Ingale	Application Scientist, VLife Sciences and Technologies Pvt. Ltd., Pune
		Dr. Anil Deshpande	Advinus Therapeutics Pvt. Ltd., Quantam Toewrs, Hinjwadi, Pune 411057
		Dr. Sanjay Bari	Principal, SES's R.C. Patel College of Pharmacy,Near Karwand Naka, Shirpur Dist-Dhule PIN 425405
		Dr. S. R. Pattan	Principal, Pravara Rural Education Society's Pravara Rural College of Pharmacy, PravaranagarA/P-Loni BK, Tal. – Rahata Ahmednagar PIN 413736
	<b>2010-2011</b>		
3.	One day seminar on “Quality Assurance and Pharmaceutical Regulatory affairs” (4 <sup>th</sup> Jan. 2011)	Dr. Mandar Koudgule	Associate Vice President and Head, Global Intellectual Property and Strategic Planning, Wockhardt Ltd. Aurangabad
		Dr. P. K. Puranik	Professor, Government College of Pharmacy, Hotel Vedant Road Opp. Govt. Polytechnic, Aurangabad, PIN 431005
		Prof. Vinayak Sarode	Professor, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
4.	One day seminar on “Lead molecule from Natural Product” (5 <sup>th</sup> Jan. 2011)	Dr. Pravin Wakte	Head of Chemical Technology, Pharmaceutical Technology Division, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
		Dr. R. B. Jadhav	Principal, Rajamata Jijau Shiksan Prasark Mandal College of Pharmacy, Dudul Gaon, Gat No.101-102, Moshi Alandi Rd., Dudul Gaon, Pune PIN 412105
		Dr. Subhash Mehetre	Director of Research, Mahatma Phule

			Krishi Vidyapeeth, Rahuri, Ahmednagar
5.	Two weeks Staff Development Program (SDP) on “Recent Advances in Drug Design Discovery” (10 <sup>th</sup> -22 <sup>nd</sup> Jan. 2011)	Dr. K.S. Jain	Principal, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
		Dr. Ravi kumar	Senior application Scientists, Schrodinger, Bangalore
		Dr. Nilesh M. Dagia	Vice President – Integrated Drug Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Jayant J. Khandare	Senior Research Scientist, Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Sanjay Kumar	Senior Group Leader, Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Abhijit Roy Chaudhary	Assistant Director Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. V. M. Kulkarni	Professor Emeritus, Poona College of Pharmacy Bharati Vidyapeeth University, Pune
		Mr Kundan Ingle	Application Scientist, VLife sciences and technologies Pvt. Ltd., Pune
		Dr. Evans Coutinho	Professor and Head, Dept. of Pharm. Chemistry, Bombay College of Pharmacy, Mumbai
		Dr. S. H. Bhosale	Professor in Pharm. Chemistry, Poona College of Pharmacy, Pune
		Mr. Rajaram Patil	Sr. manager, Thermo Fisher Scientific Application, Thane (W), Mumbai.
		Dr. V. A. Savangikar	Patent Attorney, Krishna and Saurashtri Asso., Nasik
		Mr. Saikar Malik	M/s. Anchrom Enterprises (I) Pvt. Ltd 1st floor, Shri Aniket Apartment Navghar Road, Mulund (E) Mumbai – 400 081 (India)
		Dr. Vijay Khanna	Head, Organic and drug chemistry, B.P.H Education Society's Ahmednagar College Station Road, Ahmednagar - 414001
		Dr. C. D. Upasani	Principal, S.N.J.B.’s Shri man Sureshdada Jain College of Pharmacy, Chandwad, Nashik
		Dr. C. R. Patil	Professor in Phamacology, SES’s R. C. Patel College of Pharmacy, Shirpur, Dhule
		Dr. V. K. Mourya	Principal, Government College of Pharmacy, Aurangabad
Dr. R. B. Navale	Department of Pharmacology, Government College of Pharmacy, Aurangabad		
Dr. Anil Deshpande	Senior Research Investigator-II, Advinus Therapeutics Pvt. Ltd., (A TATA Enterprise), Pune		
	2011-2012		
6.	One day seminar on “Advances in	Dr. S. B. Kasture	Principal, Sanjivani Rural Education Society's Sanjivani College of

	experimental Pharmacology” (2 <sup>nd</sup> Mar. 2012)		Pharmaceutical and Research, Kopargaon, At-Sahajanandnagar, Post-Shingnapur, Tal. Kopargaon, Ahmednagar PIN 423603
		Dr. C. D. Upasani	Principal, SNJB's Shriman Sureshdada Jain College of Pharmacy, A/P.Neminagar, Tal. Chandwad, Dist. Nashik-423101
7.	One day seminar on “Pharmaceutical Quality by Design” (3 <sup>rd</sup> Mar. 2012)	Mr. Kedar Suvarnapatki	Head Regulatory Affairs, Boehringer Ingelheim India Pvt. Ltd., Mumbai, Maharashtra, India
		Dr. Sanjay Boldhane	Associate Director-Innovative Drug Delivery Research at Abbott Healthcare Pvt. Ltd., Mumbai
		Dr. Rajendra Bandgar	Head- Quality Assurance R & D, Lupin Research Park, Pune
<b>2012-2013</b>			
8.	One day seminar on “Generic Drug Product development Industry Overview” (5 <sup>th</sup> Jan. 2013)	Mr. M. M. Atre	Vice- President, Concept Pharmaceutical, Aurangabad
		Mr. Ganesh Rokade	Drugs Inspector at CDSCO
		Mr. Akshay Khairnar	Formulation Scientist, Watson Pharma Pvt. Ltd., Mumbai
<b>2013-2014</b>			
9.	Two days National level seminar on “Computational Chemistry in Anticancer Drug Research” (26 <sup>th</sup> and 27 <sup>th</sup> Dec. 2013)	Dr. Rajiv Gude	Scientific Officer, “F” Advance Centre For Treatment, Research and Education in Cancer, Navi Mumbai
		Dr. Srinivasa Reddy	Senior Scientist, National Chemical Lab, Pune
		Dr. Sami Mukhopadhyay	Head, Research Services, VLife Sciences Technology, Pune
<b>2014-2015</b>			
10.	Two days seminar on “Pharmaceutical Product Development and Technology Transfer” (20 <sup>th</sup> and 21 <sup>st</sup> Nov. 2014)	Mr. Digambar Nigade	Vice President, Quality Operations, Wockhardt Ltd., Aurangabad
		Mr. Vishal Kachare	Sr. Research Fellow, Team Leader, Oral Solids, Emcure Pharmaceuticals Ltd., Pune
		Mr. Rajesh Thorve	Research Scientist, Glenmark Pharmaceuticals Ltd., Mumbai
		Dr. Shivdas Dhas	Associate Vice President, Project Management, Wockhardt Ltd., Aurangabad

**3.1.13 Mention the initiatives of the institution to facilitate a research culture in the below mentioned areas:**

**\* Training in research methodology, research ethics and biostatistics.**

- As per syllabus prescribed by Savitribai Phule Pune University, the subject called research methodology and biostatistics and computer application are being taught.
- Biostatistics is undividable part of pharmacological screening. By taking this point into consideration, students are being trained and expertise under pharmacology department.

- Efforts are made to organize guest lecturers for refining knowledge on research methodology especially emphasizing on publishing research papers, finding research problems, preparation of protocol, experimental design and drafting dissertation work.
- To be familiar with handling of e-journals like Elsevier, a demonstration lecture has been delivered by Mr. Rajeev Kumar from Elsevier publisher to become conversant with sciencedirect.
- College has deputed faculty members to attend seminars like “Heuristics and Biases”.
- \* **Development of scientific temperament.**
  - The institution gives prime importance to the development of scientific temperament among the students and faculty.
  - Institution promotes events like science quiz, scientific presentations, AIDS day, cancer day, pharmacy week etc.
  - Knowledge through quality education is being committed to students timely.
  - College offers post graduate course in four specializations to avail higher education.
  - College is recognized as center for higher learning and research.
  - Industrial Projects, UGC and AICTE research grants
  - Students carry out project at undergraduate and postgraduate level.
- \* **Presence of Medical / Bio Ethics Committee.**

College has a duly constituted Animal Ethics Committee. The Institutional Animal Ethics Committee is approved by CPCSEA, New Delhi.
- \* **Research linkages with other institutions, universities and centers of excellence. (National and international).**

Staff members of the Institution are engaged in doing interactive research by collaborating with various renowned institutions on national platform by working on various multidisciplinary approaches which also account for good publications.
- \* **Research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, Health Economics, etc.**

Institute has undertaken initiatives for arranging numerous quality research programs including conferences/workshop/seminars focusing diverse areas like clinical research, epidemiology and health economics. The sessions were delivered by eminent personalities from the respective fields which can serve as motivational tool for students and creates affinity for pharmacy profession.
- \* **Promotional avenues for multi-disciplinary, inter-disciplinary research.**
  - The college is recognized as a place of higher learning and research centre.
  - The students can do their research work in any department of the institute irrespective of their specialization. For e.g. If pharmaceutical chemistry student wants to do work regarding method development, student can utilize quality assurance laboratory. In same way these students can utilize microbiology lab for studies on anti-bacterial and anti-fungal activities.
  - Centrally located sophisticated instrument and machine room is freely accessible to the staff and students even for extended time.

- Research committee of the college conducts meetings frequently to promote and inculcate interdisciplinary research activity.
- \* **Promotional avenues for translational research.**
  - Translational research involves the application of findings made from basic science for the welfare of human beings. The theoretical knowledge of engineering techniques is practically applied in day to day research work at lab scale like distillation, drying, evaporation methods.
  - Agricultural sciences also opens new horizons for -
    - ✓ Herbal formulations for treatment of various ailments.
    - ✓ Pharmacological screening for knowing its beneficial and adverse effects
    - ✓ Validation of ethnomedicinal claims.
- \* **Instilling a culture of research among undergraduate students.**
  - Students are spurred to participate in intercollegiate/interuniversity competitions where they can gain leveled knowledge which gives cognizance for research happening in pharmacy profession where they can participate and present their work.
  - Regular industrial visits are organized so as to seek information regarding all technical know-hows including -
    - ✓ Industrial layout
    - ✓ Gross knowledge about various departments
    - ✓ Marketed formulations of respective industry
    - ✓ Various machineries and sophistications
    - ✓ Lab to land knowledge
  - The staff members whose project has being sanctioned under university grant have to guide two students for participation in innovative research project competition “Avishkar”. This also helps in heaving research culture amongst them.
  - As a part of third year curriculum, every undergraduate student is required to complete research project. For fulfilment of the same flexibility and freedom is provided to work in any discipline of pharmaceutical sciences.
- \* **Publication-based promotion/incentives.**

Yes, the institution has a policy to provide incentives to faculty for publication of research.
- \* **Providing travel grant for attending national/international conference and workshops.**

Yes, the college has strategies to provide platform to interact face to face with researches by deputing staff and students to attend conference/workshops and the expenses for the same are beared by the college.

Whatever knowledge they allocate is resorted with students which can be fruition to develop research aptitude and facilitate personal and institute development.

### 3.1.14 Does the institution facilitate

- \* **R&D for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national / international market**



Yes, the students are inspired to undertake research project in the industry to kindle and nurture the creative spark of analytical skills within themselves.

\* **Development of entrepreneur skills in health care**

Entrepreneurial skills are facilitated among the students in the following ways

- The institute orchestrates guest lectures on various corridors for career benefaction which is helpful for students to build entrepreneur skill.
- Respective faculty members and mentors spur the students to outfit entrepreneurship skill.
- In Industries, it is mandatory for aspirant to go through practical training constituting not less than four weeks which help students to develop and improve logical, creative, interpretational and analytical abilities to withstand in corporate world.

**Table 3.7: List of some alumni entrepreneurs**

Name of Entrepreneur	Enterprise
Mr. Sandeep Belsare	Yashda Medical, Tarde Hospital, Ahmednagar
Mr. Udaykumar Bhangre	Arunodaya, ayurvedic medical, Retailer
Mr. Kirtikumar Kothari	Anand Pharma properties
Mr. Hrushikesh Kukudwal	Atharva medical and wholesaler
Mr. Santosh Gawade	Om-Sai constitution - Real Estate
Mr. Aniket Chemate	Sarkar Polutry Properties
Mr. Sandeep Aher	Wholesaler, Nashik
Mr. Pramod Salke	Polutry Feeds properties, Ahmednagar
Mr. Vishal Ghodalwe	Jagadguru Agency Properties, Daund
Mr. Amitkumar Bothra	Amit Provision, Satara-Jamkhed
Mr. Kaustubh Shah	Purushottamdas Gokuldas and Sons owner, Ahmednagar
Mr. Santosh Lalwani	Soul Remedia Director, Nashik

\* **Taking leadership role for stem cell research, organ transplantation and harvesting, Biotechnology, Medical Informatics, Genomics, Proteomics, Cellular and Molecular Biology, Nanoscience, etc.**

Yes, the college has carried out research work highlighting pharmaceutical areas like Cellular and Molecular Biology, Nanoscience etc. The list of few outcomes is summarized below:

**Table 3.8: List of research work/project highlighting pharmaceutical areas like cellular and molecular biology, nanoscience**

Name of topic	Name of student	Name of guide
Umbilical cord cells - A medical boon	Duvvuri Pallavi	Prof. Ms. J. B. Wadekar
New approaches in genetic engineering	Desai Roshni	Prof. N. S. Pawar
Telomerase: A target for anticancer drug development	Mule Suchit	Prof. Ms. J. B. Wadekar
Optic fiber cable used in advanced medical technology	Timkare Gajanan	Prof. A. K. Nangare
Nanotechnology in herbals: A new era	Dudhal Sayali	Prof. Ms. J. B. Wadekar



of future medicine		
DNA alkylators	Kanthale Amol	Prof. A. K. Nangare
Nanoparticle technology in herbal product	Markad Sarika	Prof. Ms. J. B. Wadekar
A review on microencapsulation	Sarode Shrikant	Prof. N. S. Mhaske
Biosynthesis and evaluation of silver nanoparticles using medicinal plants	Dudhal Sayali	Prof. Ms. J. B. Wadekar
DNA strand breaker	Kasar Deepak	Prof. A. K. Nangare
Marfan syndrome – A genetic disorder	Jambhale Akshay	Prof. N. S. Pawar

### 3.1.15 Are students encouraged to conduct any experimental research in Yoga and / or Naturopathy?

Yes, students from the college are encouraged to conduct experimental research in Naturopathy. Among four chief disciplines involved in pharmaceutical sciences, there is one discipline Pharmacognosy in which students has to study drugs to treat ailments like infection, helminthiasis, inflammation, diabetes etc. from natural resources like herbs.

This department focuses students to carry out projects including

- Validation of ethnomedicinal claims.
- Formulation and standardization of various dosage forms from herbal origin.
- Pharmacological screening.

## 3.2 Resource Mobilization for Research

### 3.2.1 How many departments of the institution have been recognized for their research activities by national / international agencies (ICMR, DST, DBT, WHO, UNESCO, AYUSH, CSIR, AICTE, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

The college has been approved by AICTE, PCI, New Delhi, and permanently affiliated to Savitribai Phule Pune University, Pune and recognized by UGC, New Delhi.

The college is a recognized research centre for Ph.D. programme in Pharmaceutical Chemistry by Savitribai Phule University of Pune.

Under AICTE Research Promotion Scheme a project worth ₹ 16.00 lakhs has been sanctioned to Prof. Dr. R. L. Sawant for the topic entitled “Design of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents.”

Under BCUD research grant of Savitribai Phule Pune University, Pune 11 research projects were completed (**quantum of amount sanctioned in ₹ – 17.40 lakhs**).

College has organized below mentioned Staff Development Program (SDP)/seminars sponsored by AICTE, New Delhi:

- Staff Development Programme on Recent Advances in Drug Design and Discovery dated 10<sup>th</sup> -22<sup>nd</sup> Jan 2011 (**quantum of amount sanctioned in ₹ – 7 lakhs**)
- Seminar on Computational Chemistry in Anticancer Drug Research dated 26<sup>th</sup> and 27<sup>th</sup> Dec. 2013 (**quantum of amount sanctioned in ₹ – 1 lakh**)

### 3.2.2 Provide the following details of ongoing research projects of faculty:

For the year 2014-2016, seven research projects worth ₹ 11.20 lakhs has been sanctioned under BCUD research grant of Savitribai Phule Pune University, Pune. We have also applied to AICTE, New Delhi for various projects but till date we are not in receipt of its status.

**Table 3.9: University awarded minor projects for the year 2014-2016**

Sr. no.	Name of staff member	Name of the project	Total grant received (₹ in lakh)
1.	Dr. S. Z. Chemate	A programmable chronotherapeutic drug delivery system for early morning surge in blood pressure	2.40
2.	Prof. A. P. Deshpande	Design and evaluation of hepatoprotective activity of polyherbal mixture in experimental animals	1.20
3.	Prof. K. N. Tarkase	Formulation, evaluation and optimization of Table-in-Tablet of outer immediate release and inner sustain release (floating tablet) using 3 <sup>2</sup> factorial design	2.40
4.	Prof. Mrs. N. S. Pawar	Determination of liver specific proteins in condition of liver cirrhosis by micellar electrokinetic chromatography	1.20
5.	Prof. Ms. J. B. Wadekar	Repurposing of cassia species for diabetic complications	1.20
6.	Prof. H. J. Pagar	Evaluation of anti-anxiety activity of <i>Andrographis paniculata</i> in experimental animals	1.60
7.	Prof. M. A. Raskar	Photofluorimetric estimation of polycyclic aromatic hydrocarbons and their derivatives from pharmaceuticals and food elements	1.20

### 3.2.3 Does the institution have an Intellectual Property Rights (IPR) Cell?

Yes, the college has jointly run IPR cell with scientific research committee.

**Table 3.10: Constitution of intellectual property rights (IPR) cell**

Sr. no.	Name	Designation	Post
1.	Prof. Dr. R. L. Sawant	Professor	Chairman
2.	Prof. Ms. J. B. Wadekar	Assistant Professor	Member
3.	Prof. A. W. Ambekar	Assistant Professor	Member
4.	Prof. M. A. Raskar	Assistant Professor	Member
5.	Prof. G. R. Godge	Assistant Professor	Member

### 3.2.4 Has the institution taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

The college had taken following initiatives to create awareness amongst faculty members for filing patents:

- Organized guest lecture by eminent personalities to become familiarize with patent scenario and IPR strategies.

**Table 3.11: Lectures conducted by eminent personalities**

Topic	Speaker	Affiliation
Basic of patent and patent protection	Dr. Mandar Koudgule	Associate Vice President and Head, Global Intellectual Property and Strategic Planning, Wockhardt Ltd., Aurangabad
IPR strategies for educating institutions	Dr. V. A. Savangikar	Patent Attorney, Krishna and Saurashtri Asso., Nasik

- Prof. Dr. R. L. Sawant has filed patent application **547/MUM/2015** on Feb. 20, 2015.

**3.2.5 Does the institution have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

No project has been sponsored by the industry / corporate houses.

**3.2.6 List details of**

**a. Research projects completed and grants received during the last four years (funded by National/International agencies).**

**Table 3.12: List of completed research projects**

Sr. no.	Title of research	Name of principal investigator	Year	Grant received (₹ in lakh)
<b>Major research project (Funding agency: RPS, AICTE, New Delhi)</b>				
1.	Design of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents	Prof. Dr. R. L. Sawant	2012-2014	16.00
<b>Minor research projects (Funding agency: BCUD, Savitribai Phule Pune University, Pune)</b>				
2.	Synthesis, characterisation and biological evaluation of some new quinoxaline derivatives	Prof. Dr. P. Y. Pawar	2009-2011	1.90
3.	Microwave mediated synthesis of Hantzsch esters analogues of potential biological interest	Prof. Dr. R. L. Sawant	2009-2011	2.00
4.	Development and evaluation of oral floating pulsatile drug delivery system based on calcium pectinate beads	Prof. Dr. S. Z. Chemate	2011-2013	2.00
5.	Design and evaluation of polyherbal formulation for the antihyperlipidemic activity	Prof. A. P. Deshpande	2011-2013	1.50
6.	Preparation and evaluation of transdermal drug delivery system of anti-hypertensive drug	Prof. K. N. Tarkase	2011-2013	2.00
7.	Quantitative analysis of	Prof. U. K. Daware	2011-2013	2.00

	immobilized metalloenzymes by atomic absorption spectroscopy			
8.	Antiasthmatic potential of <i>Cassia auriculata</i> roots	Prof. Ms. J. B. Wadekar	2011-2013	2.00
9.	Evaluation of antiasthmatic activity of garlic in experimental animal	Prof. H. J. Pagar	2011-2013	1.50
10.	Formulation and evaluation of ethosomes for transdermal delivery of antiviral drugs	Prof. A. W. Ambekar	2011-2013	2.00
11.	Synthesis and antiinflammatory activity of benzofuran analogs of fenamates bearing oxadiazole	Prof. B. Y. Mane	2009-2011	1.50

**b. Inter-institutional collaborative projects and grants received:**

**i) National collaborations**

**ii) International collaborations**

Inter-institutional collaborative work resulted in 71 research publications till now in reputed journals.

**3.2.7 What are the financial provisions made in the institution budget for supporting students' research projects?**

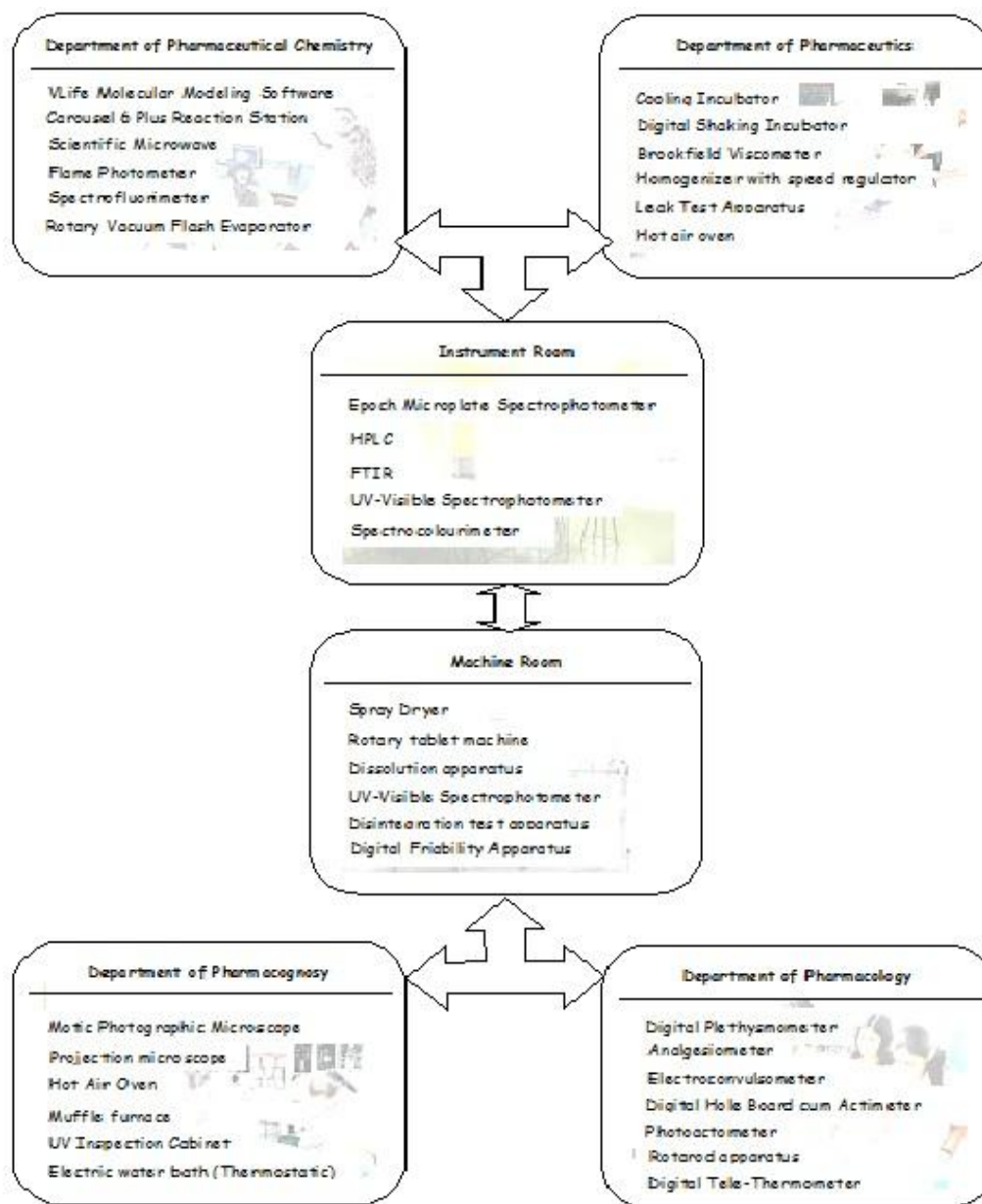
To facilitate research activity amongst students, the college furnishes financial support by making budgetary provisions for following heads:

Hiring charges, field work/travel, chemicals/glassware, contingency, equipment, books and journals.

**3.3 Research Facilities**

**3.3.1 What efforts have been made by the institution to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?**

The college was established in 1994 in picturesque campus under the orbit of Padmashri Dr. Vithalrao Vikhe Patil Foundation. Since then college has constantly endeavored to augment the infrastructure for research facilities.



**Fig. 3.1: Major research facilities available in the college**

**Strategies evolved to meet the needs of researchers in emerging disciplines to get students acquainted with current research scenario:**

**The major research facilities provided:**

- State-of-art laboratories,
- CPCSEA approved animal house facility,
- Central air conditioned library with
  - ✓ Wide range of reference books, official books and book bank facility
  - ✓ Journals of national and international repute
  - ✓ Postgraduate dissertations
  - ✓ E-library with high-speed internet facility covering international journals from Elsevier and Bentham published with back volumes

- ✓ Softcopy of database including various books and journals in the form of CD-ROMs for easy access
- ✓ Constant upgradation of library with respect to the titles and edition of books, journals and other reading materials.
- In addition, the college has promoted and encouraged research activities by providing facilities like spacious and efficient computer centre with high speed broad band internet connectivity, medicinal plant garden, animal house outfit, uninterrupted power supply with generator backup and water facility.
- The maintenance and upkeep of the infrastructure and facilities like equipments are governed by maintenance department and well trained technicians.
- The college has a separate civil and electrical department headed by respective engineers who takes care of the infrastructure.
- The college is having central sophisticated instrument room and machine room which are interconnected and availed by all departments.

**3.3.2 Does the institution have an Advanced Central Research facility? If yes, have the facilities been made available to research scholars? What is the funding allocated to the facility?**

Yes, the college has advanced central research facility which is made available to research scholars. The necessary funding is allocated through various grants received from various funding agencies and from college budget.

**3.3.3 Does the institution have a Drug Information Centre to cater to the needs of researchers? If yes, provide details of the facility.**

No, the college does not have a drug information centre. But in a regular lecture, practical as well as in guest lectures and seminars information related to drugs is being taught.

**3.3.4 Does the institution provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (National/international)?**

Yes, the college provides residential facilities.

**3.3.5 Does the institution have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Yes, the college is the first pharmacy institute in Ahmednagar district as a recognized Ph.D. research centre in Pharmaceutical Chemistry affiliated to Savitribai Phule Pune University.

Research scholars from other institutes are availed with library and laboratory facilities for their research work.

**3.3.6 Clinical trials and research**

**\* Are all the clinical trials registered with CTRI (Clinical Trials Research of India)?**

**\* List a few major clinical trials conducted with their outcomes.**

Being pharmacy institute we are not eligible to conduct clinical trials. But whatever pre-clinical studies conducted are approved by CPCSEA, New Delhi.

### 3.4 Research Publications and Awards

**3.4.1 Does the institution publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.**

No, the college does not publish any research journal. However, we have published proceeding in AICTE sponsored two days national level seminar on “CCIADR – Computational Chemistry in Anticancer Drug Research”

**3.4.2 Give details of publications by the faculty and students:**

**Number of papers published in peer reviewed journals (national /international)**

- \* **Monographs**
- \* **Chapters in Books**
- \* **Books edited**
- \* **Books with ISBN with details of publishers**
- \* **Number listed in International Database (For e.g. Web of Science, Scopus,**
- \* **Humanities International Complete, EBSCO host, Google scholar, etc.)**
- \* **Citation Index – range / average**
- \* **Impact Factor – range / average**
- \* **Source Normalized Impact per Paper (SNIP)**
- \* **SCImago Journal Rank (SJR)**
- \* **h-index**

**Table 3.13: The details of publications by the faculty**

Name of faculty	Publications listed in Inter-national database			Citation Index (Number)	SNIP	SJR	Impact Factor	h-index
	Total	Natio- nal	Inter- nation- al					
Prof. Dr. P. Y. Pawar	31	4	27				1.08	
Prof. Dr. P. M. Gaikwad	11	01	10				1.37	
Prof. Dr. R. L. Sawant	64	3	61	226	14.98	8.10	12.45	8
Dr. S. Z. Chemate	18	--	18					
Prof. A. S. Pund	01	--	01					
Prof. A. P. Deshpande	05	01	04					
Prof. K. N. Tarkase	18	01	17					
Prof. Mrs. N. S. Pawar	05	02	03				0.32	
Prof. Ms. J. B. Wadekar	23	02	21	60	6.49	2.88	5.18	5
Prof. H. J. Pagar	05	--	05					
Prof. V. V. Nimbalkar	06	--	06		1.24	0.74		
Prof. A. K. Nangare	07	01	06					



Prof. M. A. Raskar	06	--	06					
Prof. W. A. Ambekar	04	01	03					
Prof. G. R. Godge	10	01	09					
Prof. Mrs. R. S. Joshi	16	04	12				1.6	
Prof. B. V. Bhagat	06	03	03					
Prof. M. K. Tarkase	09	01	08					
Prof. B. Y. Mane	07	01	06		1.42	0.88	0.87	
Prof. S. A. Hapse	25	09	16					
Prof. M. D. Dokhe	08	01	07					
Prof. S. B. Kakad	01	01	--					

**Table 3.14: The details of books published by the faculty**

Sr. no.	Name of authors	Title of book	Publisher	ISBN
1.	Ramesh Sawant and Sandip Hapse	Fundamentals of quality assurance techniques	Career Publication, Nasik	978-81-88739-97-4
2.	Sandip Hapse	Analytical method development and validation with respect to ICH	LAMBERT Academic publication, Germany	978-3-659-23975-5
3.	Vikram Nimbalkar and Pandurang Gaikwad	Screening methods for hepatoprotective agents in experimental animals	Lambert Academic Publishing, Germany	978-3-659-44763-1
4.	Ganesh Godge and Shivanand Hiremath	A study on solubility enhancement methods for poorly soluble drug	LAP Lambert Academic Publishing Deutschland/Germany	978-3-659-55306-6

### 3.4.3 Does the institution publish any reports/compilations/clinical round-ups as a part of clinical research to enrich knowledge, skills and attitudes?

Deeds are taken to enrich knowledge skills and attitudes analogously with clinical research by arranging elocation of renowned resource persons from clinical research area.

Seminar on “Clinical Trials – Current Scenario” was organized by the college by following nominees:

**Table 3.15: List of resource persons invited for “Clinical trials – current scenario”**

Sr. no.	Name of resource person	Affiliation
1.	Dr. Ravindra B. Ghooi	Dean, Bilcare Research Academy, Pune
2.	Mr. Sanjay M. Patil	Assoc. Manager, Clinical Operation Eisai Clinical Research Mumbai
3.	Mr. Atul A. Wagle	Q. A. Associate, Trident Clinical Research India Pvt. Ltd. Mumbai

Also in order to upgrade clinical research knowledge, students are advised to perform projects and dissertation topic by keeping view of present scenario.

**Table 3.16: List of projects and dissertation work carried out by students in the area of clinical research**

Sr. no.	Name of student	Topic
1.	Ms. Anjali V. Bharat	Development of bioanalytical methods for some API's in plasma used in the treatment of asthma and hypertension
2.	Ms. Kalyani D. Tanpure	Development of analytical and bioanalytical methods for drugs used to treat the patients with diabetes mellitus and tuberculosis
3.	Mr. Umesh S. Dongare	Bioequivalence study of rizatriptan benzoate ODT-10mg on healthy male human volunteers under fasting condition using liquid chromatography tandem mass spectrometry (LC-MS/MS)
4.	Mr. Kunal D. Gawande	India: The hub of clinical trials
5.	Ms. Komal Shukla	Preclinical and clinical study

#### 3.4.4 Give details of

- \* **faculty serving on the editorial boards of national and international journals**
- \* **faculty serving as members of steering committees of national and international conferences recognized by reputed organizations / societies**

**Faculty serving on the editorial boards of national and international journals:**

**Prof. Dr. R. L. Sawant**, Professor and Head, Department of Pharm. Chemistry and PG studies is serving as a member of Advisory Board, International Journal of Pharmaceutical Excellence (ISSN 2349-493X).

**Faculty serving as members of steering committees of national and international conferences recognized by reputed organizations / societies:**

- **Prof. Dr. P. Y. Pawar**, Principal
  - ✓ **Co-Chairman**, LOC Task Committee, APTICON 2014.
- **Prof. Dr. P. M. Gaikwad**, Professor, Department of Pharmacology
  - ✓ **Co-Chairman**, LOC Task Committee, APTICON 2014.
- **Prof. Dr. R. L. Sawant**, Professor and Head, Department of Pharm. Chemistry and PG studies
  - ✓ **Chaired session** at ICMR sponsored National level workshop on Recent Methods of Herbal Drug Analysis organized by Pravara Rural College of Pharmacy, Loni on 18<sup>th</sup> and 19<sup>th</sup> Nov. 2009.
  - ✓ **Executive Member**, Association of Pharmaceutical Teachers of India, Maharashtra State.
  - ✓ **Member**, LOC Task Committee, APTICON 2014.
  - ✓ **Subject Expert** to evaluate Avishkar projects under Savitribai Phule Pune University, Pune at
    - \* BCUD Hall, Savitribai Phule Pune University, Pune
    - \* Arts Commerce and Science College, Rahuri.
    - \* Bhaskar Pandurang Hivale Education Society's Ahmednagar College.

### 3.4.5 Provide details for the last four years

\* research awards received by the faculty and students

**Table 3.17: Research awards received by the faculty**

Name of faculty	Research award details
<b>Prof. Dr. R. L. Sawant</b>	Thesis of Mr. Hardas Dnyaneshwar Bhaguji under the guidance of Prof. Dr. R. L. Sawant entitled “Design and synthesis of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2015.</b>
	<b>Awarded first prize in National VLife Best Research Publication Award</b> , June 2013 for the topic entitled “Computer aided design and synthesis of calcium channel blocking octahydroquinazolinone derivatives as cardio protective agents.”
	Thesis of Ms. Ramdin Supriya Sudhakar under the guidance of Prof. Dr. R. L. Sawant entitled “Design and microwave assisted synthesis of novel 5HT <sub>2A</sub> receptor antagonists as antipsychotic agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2013.</b>
	<b>Awarded second prize in National Level VLife Best Research Publication Award</b> , May 2011 for the topic entitled “Synthesis, molecular docking and cardioprotective activity of 2-methylthio-1, 4-dihydropyrimidines.”

**Table 3.18: Research awards received by the students**

Sr. no.	Name of students	Guide	Research award details
1.	Dyaneshwar Hardas	Prof. Dr. R. L. Sawant	Thesis entitled “Design and synthesis of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2015.</b>
2.	Ganesh Barkade	Prof. Ms. J. B. Wadekar	“Mosquito Repellant Candle: A new way to fight against mosquitoes” was selected in Avishkar research competition for Zonal level, University level and <b>shortlisted for State level</b> Avishkar research competition in UG Category 2014 for Pharmacy faculty from Savitribai Phule Pune University, Pune.
3.	Dyaneshwar Hardas, Sagar Mogal and Dyaneshwar Takle	Prof. Dr. R. L. Sawant	AICTE sponsored two days National seminar on Computational Chemistry in Anticancer Drug Research, 26 <sup>th</sup> and 27 <sup>th</sup> Dec. 2013, at PDVVPF’s College of Pharmacy, Vilad Ghat, Ahmednagar ( <b>First prize</b> ).

4.	Ajit Chanale	Prof. M. K. Tarkase	antioxidants activity of biscuit supplement with amla and aloe vera powder was selected in Avishkar Research competition for Zonal level ; University level and at <b>State level Avishkar Research competition in UG Category for Pharmacy faculty from Savitribai Phule Pune University in 2013.</b>
5.	Supriya Ramdin	Prof. Dr. R. L. Sawant	Thesis entitled“ Design and microwave assisted synthesis of novel 5HT <sub>2A</sub> receptor antagonists as antipsychotic agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2013.</b>
6.	Mahesh Dokhe, Girish Shinde and Abhijeet Ganorkar	Prof. K. N. Tarkase	Won Second Prize in the Oral Presentation Competition on “An ideal design of plant for manufacturing of pharmaceutical dosage forms” on 23-25th Feb 2012, organized by MET’S Institute of Pharmacy, Nashik, Maharashtra.
7.	Pradeep Bhoi	Prof. K. N. Tarkase	Formulation, optimization and estimation of aloe vera jelly bar as a oral laxative was selected in Avishkar Research competition for Zonal level, University level and at <b>State level Avishkar Research competition – 2011-12 in UG Category for Pharmacy faculty from University of Pune.</b>
8.	Ankita K. Bhatiyani and Angha Rasne	Prof. Dr. R. L. Sawant and Prof. Ms. J. B. Wadekar	“Need for magnification on research of rare diseases”, ICMR sponsored National level workshop on Preclinical Pharmacology: Conventional to In Silico organized by Pravara Rural College of Pharmacy, Loni on 27 <sup>th</sup> and 28 <sup>th</sup> Dec. 2009. <b>(Third prize)</b>
9.	S. A. Anvekar	Prof. Dr. R. L. Sawant and Prof. Ms. J. B. Wadekar	‘Dihydrofolate reductase as a therapeutic target’ presented in National Conference on “Emerging Trends in Biotechnology for Modern Era” held on 29-30 Sept. 2007 at College of Computer Science and Information Technique, Latur. <b>(Third prize)</b>

\* **National and international recognition received by the faculty from reputed professional bodies and agencies:**

**Table 3.19: Recognition received by the faculty**

Sr. no.	Name of faculty	Recognition
1.	<b>Prof. Dr. P. Y. Pawar</b>	<ul style="list-style-type: none"> <li>Recognized <b>Ph.D. guide</b> from Savitribai Phule Pune University, Pune and PIMS-Pravara Institution of Medical Sciences, Loni (Deemed University).</li> <li>Member, <b>Board of studies</b>, Savitribai Phule</li> </ul>

		<p>Pune University, Pune (2005 to 2010).</p> <ul style="list-style-type: none"> <li>• <b>Co-Chairman,</b> LOC Task Committee, APTICON 2014.</li> </ul>
2.	<b>Prof. Dr. P. M. Gaikwad</b>	<ul style="list-style-type: none"> <li>• <b>PCI inspector.</b></li> <li>• <b>Co-Chairman,</b> LOC Task Committee, APTICON 2014.</li> <li>• Member, <b>Board of studies,</b> Savitribai Phule Pune University, Pune (2005 to 2010).</li> </ul>
3.	<b>Prof. Dr. R. L. Sawant</b>	<ul style="list-style-type: none"> <li>• <b>PCI inspector.</b></li> <li>• Recognized <b>Ph.D. guide</b> from Savitribai Phule Pune University, Pune and Pacific University, Udaipur.</li> <li>• Member, <b>Board of studies,</b> Savitribai Phule Pune University, Pune (10<sup>th</sup> Nov 2010 to 31<sup>st</sup> Aug 2015).</li> <li>• Member, <b>Faculty of Pharmaceutical Sciences,</b> Savitribai Phule Pune University, Pune (10<sup>th</sup> Nov 2010 to 31<sup>st</sup> Aug 2015).</li> <li>• Member, <b>Advisory Board</b> of International Journal of Pharmaceutical Excellence. (ISSN 2349-493X).</li> <li>• Reviewer for various national and international scientific Journals like <i>Medicinal Chemistry Research (Springer)</i>, <i>Latin American Journal of Pharmacy</i>, <i>Current Trends in Biotechnology and Pharmacy</i>, <i>Archiv der Pharmazie (Wiley)</i>, <i>Arabian Journal of Chemistry (Elsevier)</i>, <i>Journal of Saudi Chemical Society (Elsevier)</i>.</li> <li>• <b>Expert</b> to evaluate projects for research grant under BCUD, Savitribai Phule Pune University, Pune.</li> <li>• <b>Executive Member,</b> Association of Pharmaceutical Teachers of India, Maharashtra State.</li> <li>• <b>Member,</b> LOC Task Committee, APTICON 2014.</li> <li>• <b>Resource Person for</b> <ul style="list-style-type: none"> <li>✓ Savitribai Phule Pune University, Pune Sponsored National Level Seminar on “Assuring the Quality of Medicine” organized by Vishal Institute of Pharmaceutical Education and Research, Ale, Dist. Pune on 27<sup>th</sup> and 28<sup>th</sup> Feb. 2013.</li> <li>✓ Department of Biotechnology (DBT), Govt. of India Sponsored Two Days Training Program on “Modern Techniques for Analysis of Secondary Metabolites” organized by Pad. Vikhe Patil College of Arts, Science and Commerce, Pravaranagar on 7<sup>th</sup> and 8<sup>th</sup> Dec. 2011.</li> </ul> </li> </ul>

4.	Prof. Ms. J. B. Wadekar	✓ Reviewer for various national and international scientific Journals like <i>Pharmaceutical Biology</i> , <i>International Research Journal of Plant Science</i> , <i>Journal of medicine and medical sciences</i> , <i>African Journal of Microbiology Research</i> , <i>International Journal of Pharmacy and Pharmacology</i> , <i>Transnational Journal of Agriculture and Soil Sciences</i> , <i>Basic Research Journal of Medicine and Clinical Sciences</i> , <i>Advancement in Medicinal Plant Research</i> .
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**3.4.6 Indicate the average number of post graduate and doctoral scholars guided by each faculty during the last four years.**

**Table 3.20: Average number of post graduate and doctoral scholars guided by faculty**

Sr. no.	Name of guide	Number of post graduate students guided	Number of doctoral scholars guided/enrolled
1.	Prof. Dr. P. Y. Pawar	30	04
2.	Prof. Dr. P. M. Gaikwad	03	-
3.	Prof. Dr. R. L. Sawant	42	07
4.	Prof. Dr. S. Z. Chemate	34	-
5.	Prof. K. N. Tarkase	34	-
6.	Prof. B. Y. Mane	07	-
7.	Prof. A. N. Merekar	07	-

**3.4.7 What is the official policy of the institution to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

- Timely enlightenment is imparted to the students by the college on behalf of malpractice and plagiarism in research.
- While submitting dissertation consent letter of declaration duly signed by research student is obligatory, reflecting “the submitted work is genuine”.
- Students working as a researcher are urged not to present subpar work in their research projects.
- To canvas genuine research, the college is having stratagem to check malpractices and plagiarism in research monitored by plagiarism software provided by Savitribai Phule Pune University, Pune.
- Till date no plagiarism cases have been reported.

**3.4.8 Does the institution promote multi/interdisciplinary research? If yes, how many such research projects have been undertaken and mention the number of departments involved in such endeavors?**

Yes, the college promotes interdisciplinary research resulting in completion of 5 research projects and 85 publications. For the year 2014-2016 under University grant 3 projects are ongoing.

**Table 3.21: List of research projects undertaken and the number of departments involved**

Sr. no.	Title of research	Name of principal Investigator	Disciplines involved	Number of departments involved
1.	Microwave mediated synthesis of Hantzsch esters analogues of potential biological interest	Prof. Dr. R. L. Sawant	Pharmaceutical chemistry, Pharmacognosy and Pharmaceutics	03
2.	Design and evaluation of polyherbal formulation for the antihyperlipidemic activity	Prof. A. P. Deshpande	Pharmacognosy and Pharmaceutics	02
3.	Preparation and evaluation of transdermal drug delivery system of anti-hypertensive drug	Prof. K.N. Tarkase	Pharmaceutics and Quality Assurance	02
4.	Antiasthmatic potential of <i>Cassia auriculata</i> roots	Prof. Ms. J. B. Wadekar	Pharmacognosy and Pharmaceutics	02
5.	Formulation and evaluation of ethosomes for transdermal delivery of antiviral drugs	Prof. A. W. Ambekar	Pharmaceutics and Pharmacognosy	02
6.	Formulation, evaluation and optimization of table-in-tablet of outer immediate release and inner sustain release (floating tablet) using 3 <sup>2</sup> factorial design	Prof. K. N. Tarkase	Pharmaceutics and Pharmaceutical Chemistry	02
7.	Design and evaluation of hepatoprotective activity of polyherbal mixture in experimental animals	Prof. A. P. Deshpande	Pharmacognosy and Pharmaceutics	02
8.	Photofluorimetric estimation of polycyclic aromatic hydrocarbons and their derivatives from pharmaceuticals and food elements	Prof. M. A. Raskar	Pharmaceutical Chemistry and Pharmaceutics	02



**3.4.9 Has the university instituted any research awards? If yes, list the awards.**

No, the college has not instituted any research award. However, in AICTE sponsored two days national level seminar on “Computational Chemistry in Anticancer Drug Research” college awarded trophies and certificates to winners and runner-ups.

**3.4.10 What are the incentives given to the faculty and students for receiving state, national and international recognition for research contributions?**

- In order to receive recognition in pharmacy profession, staff and students are provided juncture to present their research work across India by meshing in various seminars/conferences.
- All the financial assistance is humped by college.
- Staff and students who brighten our college name through their research by awarding with prizes are motivated by giving certificates in prize distribution ceremony and are applauded by communiqué in various news papers.

**3.4.11 Give details of the postgraduate and research guides of the institution during the last four years.**

**Table 3.22: List of recognized research guides of the college during the last four years**

Sr. no.	Name of faculty	Department	Details
	<b>Research guide</b>		
1.	Prof. Dr. P. Y. Pawar	Principal, Department of Pharmaceutical Chemistry	Recognized Ph.D. guide from <ul style="list-style-type: none"> <li>• Savitribai Phule Pune University, Pune</li> <li>• PIMS- Pravara Institution of Medical Sciences, Loni (Deemed University)</li> </ul>
2.	Prof. Dr. R. L. Sawant	Professor and Head, Department of Pharmaceutical Chemistry and PG studies	Recognized Ph.D. guide from <ul style="list-style-type: none"> <li>• Savitribai Phule Pune University, Pune</li> <li>• Pacific University, Udaipur</li> </ul>

**Table 3.23: List of postgraduate guide recognized by Savitribai Phule Pune University, Pune**

Sr. no.	Name of faculty	Details
1.	Prof. Dr. P. Y. Pawar	Principal, Department of Pharmaceutical Chemistry
2.	Prof. Dr. P. M. Gaikwad	Professor and Head, Department of Pharmacology
3.	Prof. Dr. R. L. Sawant	Professor and Head, Department of Pharmaceutical Chemistry and PG studies
4.	Prof. Dr. S. Z. Chemate	Professor and Head,

		Department of Pharmaceutics
5.	Prof. A. P. Deshpande	Associate Professor, Department of Pharmacognosy
6.	Prof. K. N. Tarkase	Assistant Professor, Department of Pharmaceutics
7.	Prof. Ms. J. B. Wadekar	Assistant Professor, Department of Pharmacognosy
8.	Prof. H. J. Pagar	Assistant Professor, Department of Pharmacology
9.	Prof. M. A. Raskar	Assistant Professor, Department of Pharmaceutical Chemistry
10.	Prof. A. N. Merekar	Assistant Professor, Department of Pharmaceutics
11.	Prof. B. Y. Mane	Assistant Professor, Department of Pharmaceutical Chemistry

### 3.5 Consultancy

#### 3.5.1 What are the official policy/rules of the institution for structured consultancy? List a few important consultancies undertaken by the institution during the last four years.

Being a reputed educational organization we are committed to impart quality and value based education with a motto to spawn young pharmacists with a flare positive attitude. In this regard, the expertise staff members framed policies for consultancy by which they are supporting and engaged in sharing their subject knowledge in co-operative environment with research scholars. Research scholars from other institutes are availed with library, laboratory and instrument facilities for their research work.

**Table 3.24: List of consultancies undertaken by the institution during the last four years**

Sr. no.	Name of faculty/ research scholar	Affiliation	Consultancies utilized
1.	Prof. Anil Jadhav and PG Students	Dept. of Analytical Chemistry, Ahmednagar Jilha Maratha Vidya Prasarak Samaj's New Arts, Commerce and Science College, Ahmednagar	Pharmaceutical Chemistry and (Muffle furnace) Pharmacognosy Lab
2.	Prof. Anil Jadhav and PG Students	Dept. of Analytical Chemistry, Ahmednagar Jilha Maratha Vidya Prasarak Samaj's New Arts, Commerce and Science College, Ahmednagar	Dissolution and Disintegration Apparatus (Machine Room)
3.	Dr. Vyanktresh Punde	Jidnyatix Life Sciences, Level-6, Pentagon P-2, Magarpatta City, Hadapsar, Pune - 411013	Antibacterial activity of herbal formulation (Microbiology Lab)
4.	Prof. Sunil Harer	Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra	Epoch Microplate Spectrophotometer and VLife MDS Molecular Modeling Software

5.	Dr. Nilima Rajhans	Shri. Yashwantrao Chavan Memorial Medical and Rural Development Foundation's Dental College and Hospital, Ahmednagar	Soxhlet Apparatus (Pharmacognosy Lab)
6.	Prof. Mrs. S. S. Desai	Dept. of Physics, Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Engineering	UV Spectrophotometer, balance (Instrument room); Muffle furnace (Pharmacognosy Lab)
7.	Prof. Sajid Shaikh and PG Students	Dept. of Microbiology, Ahmednagar Jilha Maratha Vidya Prasarak Samaj's New Arts, Commerce and Science College, Ahmednagar	Routes of drug administration in experimental animals and animal handling (Pharmacology Lab)
8.	Prof. Mrs. Zarina Khudus and PG Students	Dept. of Microbiology, The Bhaskar Pandurang Hivale Education Society's Ahmednagar College, Ahmednagar	Animal handling and data analysis (Pharmacology Lab )
9.	Prof. V. R. Kulkarni	Dept. of Civil Engineering, Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Engineering	Flame Photometry (Pharmaceutical Analysis Lab)
10.	Prof. S. S. Mandhare	Dept. of Instrumentation, Dr. Vithalrao Vikhe Patil Foundation's College of Engineering	High Performance Liquid Chromatography [HPLC] (Instrument room)
11.	Ms. Sunayna Shinde	Pravara Rural College of Pharmacy, Pravaranagar	Tablet Punching Machine (Machine room)

### 3.5.2 Does the university have an industry institution partnership cell? If yes, what is its scope and range of activities?

We have applied to AICTE for financial assistance for establishment of an innovative campaign by inception of industry institution partnership cell (IIPC) which will provide new lease for students, staff members and research scholars by refurbishing knowledge to become proficient in our profession aims in:

- Improving knowledge and bridging the gap between college, academia and industry.
- Providing platform for students and researchers to interact.
- Impacting overall development of the student in synchronization with training and placement cell that will give them edge in employment market and pharmaceutical industries.
- Creating manifesto for exhilarating student's career by devising campus interview.
- Organizing guest lecturers of experts from industries to deliver talk on newly introduced topics from curriculum.
- Organizing visits to industries.
- Benefiting students desire to do industrial projects.

- Arranging visits of renowned researchers from industry for exchanging their research ideas with students and staff members for actualizing the current motif in research fraternity
- Organizing conferences / seminars / workshops under the orbit of IIPC (through this cell) which augmented the knowledge and skill of both the faculty and students.
- Encouraging faculty to do consultancy, testing and industrial collaboration
- Procuring sophisticated instruments and improve infrastructural facilities for research and investigatory projects.

**3.5.3 What is the mode of publicizing the expertise of the institution for consultancy services? Which are the departments from whom consultancy has been sought?**

To unmask and publicize the expertise concomitantly with consultancy services available in college, uttermost efforts are being made by dint of:

- Showcasing on website of college
- Preparing brochure enlisting various facilities available and circulating them in nearby colleges
- Seminar, orientation programme, conferences, workshops organized
- Personal contacts with industry personnel
- Conference proceedings
- Alumni booklet
- Placement brochure.

As a causatum of these efforts, research scholars, students and staff members from various colleges located in nearby region sought our consultancy services.

**3.5.4 How does the institution utilize the expertise of its faculty with regard to consultancy services?**

The college gives positive emphasis on research, nurtures scientific temper, research culture and aptitude among the faculty members and the gained sound knowledge is utilized by them with regard to consultancy services.

Our expertise faculty also serves as a resource person for delivering guest lectures, sessions in industry and various workshop/seminar/conferences to maximize the study boundary of research scholars.

**Prof. Dr. Ramesh Lakshman Sawant, Professor and Head, Department of Pharm. Chemistry and PG studies**

**Invited Talks**

- **Industry**
  - ✓ “Fundamentals of Spectroscopic Techniques” at Lupin Research Park, Pune on 17<sup>th</sup> July 2014.”
- **Academia**
  - ✓ “Mass Spectroscopy and NMR” at Shivnagar Vidya Prasarak Mandal’s College of Pharmacy, Malegaon – Bharamati, Dist. Pune on 30<sup>th</sup> Nov. 2012.
  - ✓ “Modern Spectroscopic Techniques in Analysis” at Shriman Sureshdada Jain College of Pharmacy, Chandwad, Dist. Nashik on 14<sup>th</sup> Jan. 2012.
  - ✓ “Structural Elucidation with the help of Spectroscopic Data” at Vishal

Institute of Pharmaceutical Education and Research, Ale, Dist. Pune on 7<sup>th</sup> Jan. 2012.

- ✓ “Advance Analytical Techniques” at Shriman Sureshdada Jain College of Pharmacy, Chandwad, Dist. Nashik on 20<sup>th</sup> Oct. 2010.
- ✓ “Spectroscopic Analysis” at Bharati Vidyapeeth College of Pharmacy, Kolhapur on 24<sup>th</sup> Sep. 2011.
- ✓ “Fundamentals and Applications of Spectroscopic Techniques” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist. Dhule on 8<sup>th</sup> and 9<sup>th</sup> Oct. 2010.
- ✓ “Advance Pharmaceutical Analysis” at Sharadchandra Pawar College of Pharmacy, Otur, Dist. Pune on 26<sup>th</sup> Dec. 2009.
- ✓ Spectroscopy – Applications and related problems” at Shivnagar Vidya Prasark Mandal’s College of Pharmacy, Malegaon – Bharamati, Dist. Pune on 5<sup>th</sup> Dec. 2009.
- ✓ “Advance Pharmaceutical Analysis” at Sharadchandra Pawar College of Pharmacy, Otur, Dist. Pune on 20<sup>th</sup> Nov. 2009.
- ✓ “Infra Red Spectroscopy” at Siddhant College of Pharmacy, Pune on 2<sup>nd</sup> Oct. 2009.
- **Resource Person**
  - ✓ Savitribai Phule Pune University, Pune Sponsored National Level Seminar on “Assuring the Quality of Medicine” organized by Vishal Institute of Pharmaceutical Education and Research, Ale, Dist. Pune on 27<sup>th</sup> and 28<sup>th</sup> Feb. 2013.
  - ✓ Department of Biotechnology (DBT), Govt. of India Sponsored Two Days Training Program on “Modern Techniques for Analysis of Secondary Metabolites” organized by Pad. Vikhe Patil College of Arts, Science and Commerce, Pravaranagar on 7<sup>th</sup> and 8<sup>th</sup> Dec. 2011.
  - ✓ Chaired session at ICMR sponsored National level workshop on Recent Methods of Herbal Drug Analysis organized by Pravara Rural College of Pharmacy, Loni on 18<sup>th</sup> and 19<sup>th</sup> Nov. 2009.

**3.5.5 Give details regarding the consultancy services provided by the institution for secondary and tertiary health care centers and medical / dental practitioners.**

Practitioner from dental care unit Dr. Nilima Rajhans (Principal and HOD) from Shri. Yashwantrao Chavan Memorial Medical and Rural Development Foundation’s Dental College and Hospital, Ahmednagar has utilized consultancy services from our expertise faculty for carrying out her Ph.D. work highlighting effect of various medicinal plant extracts as an antimicrobial agent against tooth decay.

Being a pharmacy profession we are not concerned with provision of secondary and tertiary health care centers.

**3.5.6 List the broad areas of consultancy services provided by the institution and the revenue generated during the last four years.**

The broad areas of consultancy services provided by the college which benefited research scholar students and staff members are:

- Organic synthesis
- Computer aided drug design (CADD)

- Drug design in area of cancer, cardio vascular system, pain, inflammation, infectious diseases
- Enzyme assay (molecular level studies)
- Bioanalytical and bioequivalent studies
- Analytical method development
- Phytochemical studies
- Pharmacognostic studies
- Herbal formulation
- Novel drug delivery system
- Formulation- optimization and development of transdermal drug delivery system, ocular system
- Pharmacological screening.

### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the institution sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programs which have created an impact on students' campus experience during the last four years.**

**Sensitization of college faculty and students on Institutional Social Responsibilities:**

- The college aims to provide education for a super naturalist temperament.
- The college always takes state-of-the-art and unorthodox initiatives to reach out to the people.
- By seasoning various activities amongst students and staff members, they are exposed and developed sound knowledge and Institutional Social Responsibility (ISR) spirit.

**Various social outreach programs during the last four years are:**

Blood donation camp, free health check-up camp, Pharmacy week, cancer day, environment awareness, AIDS awareness programmes, campus cleaning, tree plantation, quiz competition, rangoli competition, mehendi competition, celebration of republic and independence day, earn and learn scheme and participation in youth camp at snehalaya rehab centre.

**Impact of extension and outreach programmes**

An extension and outreach programme fosters the students to admonish for volunteer service and humanitarianism.

- Through these camps students feasibly visit and interact with patients suffering from various diseases. This creates urge to work in this arena for the benefitment of research and ultimately society.
- By frameworking various activities, students and staff members are exposed to develop sound knowledge, communication skills, organizational skills and team spirit.
- Momentousness of cleanliness and environment awareness creates positive behaviour in students for outreach programmes.

**3.6.2 How does the institution promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?**



Following types of activities are organized to promote university-neighborhood network and student engagement for the holistic development of the students:

- Students and staff members contribute and support financially to communities such as old age home, snehalaya rehab center, natural disasters like earthquake.
- Involving our students for the skill oriented programmes through various competitions like debate and quiz competition.
- For better career option with global awareness we organized campus pool for our college students as well as various neighbourhood pharmacy colleges in collaboration with Tata Consultancy Services (TCS), Mumbai and Concept Pharma, Aurangabad to scrutinize efficient students.
- Organized Industrial visit to various pharmaceutical companies.
- For the better employment and for development of life skills we organize programmes like workshop, conferences, seminar related to training on equipment handling, current scenario in pharmacy fraternity.

### **3.6.3 How does the institution promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programs?**

Based on creative activities, students and staff members engagement can be promoted in the following ways

- Enable students and staff members to develop their social and cultural capital: This kind of capital derives from a sense of belonging, from active relationships with others, and from knowing how things work around the college.
- Enable students and staff members to become active citizens: The need of democratic-critical conception is engagement that goes beyond strategies, techniques, behaviors and leads not only to academic achievement but to success as an active citizen.

The college enables students and staff members to participate in social programme like – Mr. Ganesh D. Barkade has participated and presented poster under **Global Organic Agriculture Festival** organized by Akhil bhartiya shree Swami Samarth Gurupeeth, Trimbakeshwar and Pradhan Kendra (Dindori) in association with Shree Swami Samarth Krushi Vikas Va Sanshodhan Charitable Trust at Nashik.

### **3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the institution to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

College has made a significant effort to promote social justice as a value in acquisition of knowledge and gubernatorial interaction.

- Students and staff members contribute and support financially to communities such as old age home, snehalaya rehab center, natural disasters like earthquake.
- The students participated in AIDS rally organized to create awareness among people.



**3.6.5 Does the institution have a mechanism to track the students' involvement in various social movements / activities that promote citizenship roles?**

Yes, the college has tackled the following mechanisms to track students' involvement in various social movements to promote citizenship role:

- One male and one female class representative are selected from each class on the basis of previous class merit. Their role is to identify student issues and needs by working with other class representatives, the student's association and college staff ensures that the student voice is considered in all college matters.
- All class representatives get trained to carry out this important role and gain new skills along the way. Thus superintendence temperament is developed amongst the students.
- College is having mentoring cell. Under each mentor twenty students are allocated so that mentor is able to work perpetually for the amelioration of the students.
- Under mentoring cell, students regularly meet mentor and by building trust, the mentor models positive behaviors in mentee.
- Mentor is ceaselessly giving shape to student's fictive ideas and peculiar interest which is to be best tapped for the various social activities and for ease of the society.

**3.6.6 How does the institution ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the institution that have encouraged community participation in its activities.**

College is contributing in community development by organizing various outreach activities.

**Table 3.25: Details of the initiatives taken by the college to encourage participation in outreach activities**

<b>Outreach activity</b>	<b>Event undertaken</b>	<b>Initiatives towards community participation</b>
Awareness about environment	Tree plantation	Inviting parents and involving the participation of staff and students from PDVVPF's College of Agriculture, Ahmednagar
	As a part of curriculum – UG students are being taught subject “Environmental Sciences”	Submission of project by each student regarding various allied points under Environmental Sciences
Awareness about health problems, diseases	Organizing the blood donation camp, free health check-up camp, AIDS day celebration, hemoglobin measurement camp, diabetes - hypertension check-up camp	Inviting parents and involving the participation of staff and students from Dr. Vikhe Patil Memorial Hospital and Medical College, Ahmednagar

**3.6.7 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.**

No, the college has not yet received award for extension activities and/contributions to social/community development during the last four years.

**3.6.8 What intervention strategies have been adopted by the institution to promote the overall development of students from rural/ tribal backgrounds?**

College has embraced very distinctive technique for the overall development of students mostly from rural backgrounds is with scanty communication knack in English.

Colleges being located in rural area, majority of students are from rural background so notable tutelage is given during following intervention strategies.

**Table 3.26: Intervention strategies adopted by the college to promote the overall development of students from rural/ tribal backgrounds**

<b>Intervention strategies</b>	<b>Impact</b>
Mentoring meeting	<ul style="list-style-type: none"> <li>• Builds trust and models positive behaviors in mentee</li> <li>• To identify the slow learners, special test is carried out for their development. For identified students remedial and tutorial classes are undertaken</li> <li>• Recognition of persona strengths and soft skills</li> <li>• Identification of subject interest and guidance regarding poor subject</li> </ul>
Guest lecture on personality development	<ul style="list-style-type: none"> <li>• Overcome fear and increase concentration</li> <li>• Exploring the students in various arena and developing self-confidence and good morale to be successful in life</li> <li>• Guiding the students in the preparation of Job perspective</li> </ul>
Participating in different activities	<ul style="list-style-type: none"> <li>• Enable the students to develop attitude and outlook</li> </ul>
Professional training in pharmaceutical industry	<ul style="list-style-type: none"> <li>• Develops the knowledge and skills needed to meet the challenges of a global and complex pharmaceutical industry</li> </ul>
Project work	<ul style="list-style-type: none"> <li>• Develop research aptitude and improve logical, creative, Interpretational and analytical abilities</li> <li>• Sharpen communication and presentation skills</li> <li>• Provide exposure to literature survey as well as research methodology</li> </ul>
Pharmaceutical industrial visit	<ul style="list-style-type: none"> <li>• Helps to correlate their theory with practical application in subject of pharmacy</li> <li>• Helps to mould them to serve better for community</li> </ul>

Depute students in pharmaceutical industry for dissertation work	<ul style="list-style-type: none"> <li>• With understanding of the subject, industrial work enables to put theory into practice</li> <li>• Gaining benefit from their specialist experience and knowledge in their respective sectors of the pharmaceutical industries</li> <li>• Having good technical ability, general awareness and overall personality achieves good perks and incentives</li> </ul>
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### 3.6.9 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

Following initiatives have been taken by college to promote social-justice and good citizenship amongst students and staff.

**Table 3.27: Initiatives taken by the college with impact**

Initiatives	Impact
Scholarship to students	Facilities are given to students belonging to SC/ST/OBC/EBC for procurement of scholarships from state government.
Social-justice committee	No racialism on the basis of caste, creed, sex, religion, nationality
Anti-ragging committee	Prohibiting any conduct by student which has the effect of teasing, treating or handling with rudeness.

### 3.6.10 How does the institution align itself with the annual themes/programs of WHO/ICMR?

The college aligns itself with the annual themes of WHO/ICMR by following ways:

Free health check-up camps, blood donation camp, cancer, AIDS, tuberculosis awareness programs having theme based on social messages are arranged regularly by alignment with Dr. Vikhe Patil Memorial Hospital and Medical College, Ahmednagar.

### 3.6.11 What is the role of the institution in the following extension activities?

- \* **Community outreach health programs for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.**
- \* **Awareness creation regarding potable water supply, sanitation and nutrition.**
- \* **Awareness creation regarding water-borne and air-borne communicable diseases.**
- \* **Awareness creation regarding non-communicable diseases – cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc.**
- \* **Awareness creation regarding the role of healthy life styles and physical exercise for promotion of health and prevention of diseases.**

- \* **Awareness creation regarding AYUSH Systems of medicines in general and / or any system of medicine in particular.**
- \* **Complementary and alternative medicine.**
- \* **Pharmaco economic evaluation in drug utilization.**
- \* **Participation in national programs like Family Welfare, Mother and Child Welfare, Population Control, Immunization, HIVAIDS, Blindness control, Malaria, Tuberculosis, School Health, anti tobacco campaigns, oral health care, etc.**
- \* **Promotion of mental health and prevention of substance abuse.**
- \* **Adoption of population in the geographical area for total health care.**
- \* **Research or extension work to reach out to marginalized populations.**

Most of extension activities quoted herein are relevant to medical profession. Though being pharmacy college, we are involved in activities such as:

- Free health check-up camps, blood donation camp, cancer, AIDS, tuberculosis awareness programmes are organized by alignment with Dr. Vikhe Patil Memorial Hospital and Medical College, Ahmednagar.
- Undergraduate 2<sup>nd</sup> year students having project on environmental sciences which includes potable water supply, sanitation and nutrition.
- Having attachment with Dr. Vikhe Patil Memorial Hospital and Medical College, Ahmednagar, college regularly knows about water-borne and air-borne communicable diseases, hence timely poster are presented creating awareness about the same.
- Poster presentation activities are performed on the occasion of AIDS day and cancer day.
- Guest lecture by Mr. Suresh R. Sawant was arranged on “Importance of Yoga and Meditation for Healthy Life Style”. As yoga and meditation is used as a complementary and alternative medicine having following benefits:
  - ✓ Lowers high blood pressure
  - ✓ Lowers the levels of blood lactate, reducing anxiety attacks
  - ✓ Decreases any tension-related pain, such as, headaches, ulcers, insomnia, muscle and joint problems
  - ✓ Increases serotonin production that improves mood and behavior
  - ✓ Improves the immune system
  - ✓ Increases the energy level, as you gain an inner source of energy
- College is timely engaged to prevent substance abuse in campus with the aim of:
  - ✓ “Our youth, our glory- prevent the drug abuse among youth”.
  - ✓ “Drug free nation is our goal”.
  - ✓ “Healthy life style without drugs”.

### **3.6.12 Do the faculty members participate in community health awareness programs? If yes, give details.**

Yes the faculty members participated and organized community health awareness programs which includes blood donation camp, cervical cancer awareness programme, breast cancer awareness programme, AIDS awareness programme on the eve of World AIDS day, tuberculosis - causes and awareness.

### 3.6.13 How does the institution align itself and participate in National program for prevention and control of diseases?

Timely college entangles itself to align and involve in various healths related programmes for prevention and control of various diseases by organizing guest lectures, poster presentation, rangoli and mehendi competitions on various themes focusing “Give the gift of life: Donate blood”, “Computational chemistry in anticancer drug research”, “Debunk the myths about the cancer”, “Save girl child”. College deputed students and staff members to participate in various healths related campaigns.

## 3.7 Collaborations

### 3.7.1 How has the institution's collaboration with other agencies impacted the visibility, identity and diversity of campus activities? To what extent has the institution benefitted academically and financially because of collaborations?

**Table 3.28: List of collaborative organization with their impact**

Sr. no.	Collaborative organization	Outcome
1.	Dr. Vikhe Patil Memorial Hospital and Medical College, Ahmednagar	Free health check-up and blood donation camp
2.	NGO Snehalaya rehab centre	Youth camps
3.	Reputed pharmaceutical industries	Industrial projects
4.	Consultancy provided for completion of industrial project	Jidnyatix Life Sciences, Level-6, Pentagon P-2, Magarpatta City, Hadapsar, Pune - 411013
5.	Tata Consultancy Services (TCS), Mumbai and Concept Pharma, Aurangabad	Campus interviews
6.	AICTE, Savitribai Phule Pune University	Conferences, seminars, workshops, staff development programme
7.	Other institutions	Exchanging scientific views and cultivating research culture by partaking in various conferences, workshops

### 3.7.2 Mention specific examples of how these linkages promote

- \* Curriculum development
- \* Internship
- \* On-the-job training
- \* Faculty exchange and development
- \* Research
- \* Publication
- \* Consultancy
- \* Extension
- \* Student placement
- \* Any other (specify)

To reinforce culture of excellence, special attention is strived through college by doing collaboration with various pharmaceutical organizations where all go hand in hand to bridge the knowledge gap.

**Table 3.29: Collaboration activities promoting linkages**

Linkages	Collaboration with	Activities	Beneficiaries
Curriculum development	Other college / university / Industry	<ul style="list-style-type: none"> <li>Prof. Dr. R. L. Sawant being member of board of studies and faculty of pharmaceutical sciences is taking active part in making policy, drafting and implementation of University syllabi of UG and PG courses.</li> <li>The college has organized various conferences, seminar, SDP and workshop to meet industrial needs on latest areas of development of pharmacy viz. drug design, regulatory affairs, experimental pharmacology, clinical research, quality assurance, drug discovery of natural products.</li> </ul>	Staff member and students
Internship	Pharmaceutical industry/ hospital pharmacy	<ul style="list-style-type: none"> <li>After the completion of T.Y. B. Pharm. every student has to undergo for industrial training to get acquainted with work culture in pharmaceutical industry. Additionally he can pursue training in hospital pharmacy to disseminate pharmaceutical knowledge about current scenario of medication regimens available in market.</li> <li>To establish industry-institute bond, industrial visits are systematized to provide new lease for students to become proficient from their own experiences infusing better outlook towards themselves and society.</li> </ul>	Students
On-the-job training	Pharmaceutical industry/ other college	<ul style="list-style-type: none"> <li>M. Pharm. students whoever doing industrial project are able to interact actively with pharmaceutical industry.</li> <li>Staff members are encouraged and deputed to attend various training programs.</li> </ul>	Staff members and students
Faculty exchange and development	Other institute/industry	<ul style="list-style-type: none"> <li>The college had organized various seminar, workshop and staff development programs towards enrichment of faculty and student</li> </ul>	Staff members and pharmacy profession.

		<p>knowledge in recent areas of Pharmacy field.</p> <ul style="list-style-type: none"> <li>• Faculties attended the SDP for refurbishing knowledge and experience.</li> <li>• Interactive research collaboration with faculty members from other colleges.</li> <li>• Staff members of the college also visit industries to learn practical aspects in pharmaceutical technology.</li> </ul>	
Research	Other institute/industry	<ul style="list-style-type: none"> <li>• Feasibility to access sophisticated instruments and equipments to students and staff members.</li> </ul>	Staff members and students
Publication	staff members of other institute	<ul style="list-style-type: none"> <li>• Several numbers of publications in peer-reviewed national and international journals of repute by conspiring with other institutes.</li> </ul>	Staff members and college
Consultancy	Research scholar /student	<ul style="list-style-type: none"> <li>• The institution has been depicting consultancy services to research scholars from other college with different discipline.</li> </ul>	Research scholar/student
Extension	Students	<ul style="list-style-type: none"> <li>• The college encourage extension activities in the different categories like community development, health check-up, pharmacy week, cancer day, AIDS day, blood donation, environment awareness, etc.</li> </ul>	Student and community
Student placement	Industry	<ul style="list-style-type: none"> <li>• The institution has training and placement cell which is always in contact with various renowned industries to get permission for practical training to students.</li> <li>• To aware the students about the career opportunities, various campus interviews are conducted via placement cell.</li> </ul>	The college, students and industry

**3.7.3 Has the institution signed MoUs or filed patents with institutions of national/international importance/other universities/industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the institution?**

Our college has MoU with PIMS - Pravara Institution of Medical Sciences, Loni (Deemed University).

**3.7.4 Have the institution-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**



Experts from the industry are invited to the college and they provide valuable inputs, suggestions and information on employment opportunities and employable skills needed in the job market.

Prof. Dr. R. L. Sawant delivered technical session on “Fundamentals of Spectroscopic Techniques” at Lupin Research Park, Pune on 17th July 2014.

**3.7.5 Give details of the collaborative activities of the institution with the following:**

**Table 3.30: Collaborative activities carried out in the college**

<b>Organizations</b>	<b>Collaborative activities</b>
<b>Local bodies/ community</b> PDVVPF's Dr. Vikhe Patil Memorial Hospital and Medical College	Blood donation camp, creating awareness about life threatening diseases like AIDS and cancer
Medical store of Dr. Vikhe Patil Memorial Hospital and Medical College	Broadcasting current schema of medication regimens available in market
Lokmat, Deshdut, Sakal	Participation in education fair
Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Agriculture	Tree plantation programme
Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of MBA	Guidance to improvise leadership, communication and interview techniques
<b>State government / Central government /NGOs</b> Savitribai Phule Pune university, AICTE Shehalaya Rehab Centre	Guest lectures emphasizing opportunities in government sectors and career guidance. Organized conference, seminar, SDP workshop to imbibe the industrial knowledge amongst staff members and students Participated in youth camp
<b>National bodies</b>	CPCSEA, New Delhi
<b>International agencies</b>	--
<b>Health Care Industry – Biomedical, Pharmaceutical, Herbal, Clinical Research Organization (CRO)</b>	Jidnyatix Life Sciences, Level-6, Pentagon P-2, Magarpatta City, Hadapsar, Pune - 411013
<b>Service sector</b>	Concept pharma, TCS

**3.7.6 Give details of the activities of the institution under public-private partnership.**

No, the college does not have public-private partnership.

## CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 Physical Facilities

#### 4.1.1 How does the institution plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy is situated in the campus of Padmashri Dr. Vithalrao Vikhe Patil Foundation, Vadgaon Gupta, Vilad Ghat, Post office MIDC, Ahmednagar. The college has adequate state of art building containing physical infrastructural facilities that support and facilitate teaching learning process. In college, all the activities such as administrative, curricular, academic, research, examination and extracurricular are carried out on time in the college building.

The college has well equipped laboratories, seminar hall, class rooms, administrative office and library, common rooms for boys and girls, faculty room, canteen, wash rooms, hostel facility, play grounds for indoor and outdoor games and auditorium for students to conduct various curricular and extracurricular activities. The college has well equipped research laboratory along with sophisticated instrument and machine rooms with CADD laboratory to facilitate research activities associated with teaching and learning processes. All laboratories are fully equipped to provide demands of students and research scholars with proper water, gas and electricity supply. Further, all laboratories are designed with the safety features which provides good atmosphere for academic and research works. The class rooms are designed to meet needs of conventional teaching as well as audiovisual teaching depending upon the requirement. The institution has 24x7 powers backup with generators so that there is no disturbance in teaching and learning activities. The organization has its own rain water harvesting policy. Under this we have check dams for collecting rain water. Also we have water treatment plant to recycle and in addition we have separate water supply connection from public water supply which supplies water on daily basis. This meets the need of water for students in college as well as in hostels.

As per the All India Council for Technical Education and Pharmacy Council of India norms, building and infrastructure facility is exclusively utilized for education and research.

Infrastructure is optimally utilized by undergraduate, postgraduate and Ph.D. students and staff members for their research work. They can access the infrastructure facilities on holidays with prior permission. Students use the computer facility for e-journal referencing, scientific literature, internet surfing without disturbing the routine time table. The Infrastructure is also optimally utilized for organizing scientific seminars, conferences and extracurricular program and social activities like blood donation camp, medical checkup, cancer awareness, AIDS awareness programme and environment awareness day. Faculty and students of other institution utilizes the library, sophisticated instruments, machine room, CADD lab and animal house facility for their research work.

#### 4.1.2 Does the institution have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

The colleges have faith in continuous progress of its infrastructure to meet the changing needs of the academic environment and provide adequate funds in its budget to meet the expanding needs. The college has been continuously augmenting the infrastructure facilities to keep pace with academic growth.

**Table 4.1: Budget allocated for strengthening of infrastructure facility during last four years (₹ in lakh)**

<b>Infrastructure</b>	<b>2013-14</b>	<b>2012-13</b>	<b>2011-12</b>	<b>2010-11</b>
<b>Building</b>	27.66	330.65	271.58	114.00
<b>Furniture</b>	5.00	3.50	2.50	2.50
<b>Equipment</b>	10.00	26.10	21.71	20.00
<b>Computers</b>	4.17	11.40	13.51	8.25

**4.1.3 Has the institution provided all its departments with facilities like office room, common room and separate rest rooms for women students and staff?**

Yes, the college has provided facilities like, common room, wash rooms separately for men, women, students and staff. In addition, campus also provides ancillary area like canteen facility to serve refreshments to students and staff.

**4.1.4 How does the institution ensure that the infrastructure facilities are barrier free for providing easy access to college and hospital for the differently-abled persons?**

College has provided supplementary infrastructural facilities for physically disabled students. The provision of modified wash room and wheelchairs are made for them. The seating arrangement in the class, practical and laboratory platforms and library are designed for the convenience of the differently-abled persons.

**4.1.5 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?**

The college has a big play ground, gymkhana and fully equipped auditorium which are used by the students for indoor and outdoor sport and cultural events. Sports week is organized during Ganesh festival and annual day function. The college provides facilities for playing and practicing various games like volleyball, football, cricket, kabaddi, kho kho, badminton, etc. The facilities for Indoor games like table tennis, chess, caroms etc. are also available for the students. The college encourages the students to participate in intercollegiate and inter-university tournaments.

**4.1.6 What measures does the institution take to ensure campus safety and security?**

College has close campus with single door entry for students, staff and visitors. The visitor's entry book is maintained. Students and staff have separate dress codes. Identity card is mandatory for students and staff to enter in the campus. The laboratories are equipped with exhaust fans to remove fumes produced in the lab during practical work. The college campus contains enough number of fire extinguishers at different places along with separate water supply connection to tackle the fire. College is committed in providing

and promoting a safe environment for our students, faculty, staff and visitors. The office of safety and security maintains a visible existence throughout our campus and is readily available to serve and assist while ensuring that our campus remains secure for 24x7. Enlighten our students in security issues, personal safety measures, and protective strategies are all part of services that we provide during practical performance in the laboratory. The students are insured during tenure at the undergraduate and postgraduate level. It is a priority to ensure the safety of our institution by having all students and staff readily identified.

#### **4.1.7 Facility of Animal House**

- \* **Is animal house maintained as per CPCSEA guidelines?**
- \* **Whether records of animal house are maintained for learning and research activities?**
- \* **Does the animal house have approval for breeding and selling experimental animals as per CPCSEA guidelines?**

Yes, the college has well maintained animal house as per CPCSEA guidelines (Registration number - 1670/PO/a/12/CPCSEA Dt-28 May 2013).

All the record and data of animal house usage are maintained as per the norms of CPCSEA. The recommendation of CPCSEA nominee regarding breeding of animals are forwarded to CPCSEA for necessary approval.

#### **4.1.8 Provide the following details on the use of laboratories / museums as learning resources:**

- \* **Number**
- \* **Maintenance and up-gradation**
- \* **Descriptive catalogues in museums**
- \* **Usage of the above by the UG/PG students**

College has total 18 well developed and fully equipped laboratories viz.

Pharmaceutical Chemistry Laboratory I - III; Pharmaceutics Laboratory I – II, Pharmaceutical Microbiology Laboratory with aseptic area, Pharmacognosy Laboratory I, Pharmacology Laboratory I – II, Instrumentation Room, Pharmaceutical Analysis Laboratory, Pharmaceutical Chemistry Postgraduate Research Laboratory, Pharmacology Postgraduate Research Laboratory, Quality Assurance Techniques Postgraduate Research Laboratory, Pharmaceutics Postgraduate Research Laboratory and Ph.D. Research Laboratory.

The machine room with a well-built area is equipped with machines generally encountered in pharmaceutical industry like Multi Station Rotary Punching Machine, Spray Drier, Dissolution Rate Test Apparatus (USP Standard), Disintegration Rate Test Apparatus (USP standard), Probe Sonicator, Brookfield Viscometer, Leak Test Apparatus, Moisture Balance and UV Visible Spectrophotometer.

The central sophisticated instrumentation room is well equipped with sophisticated instruments like Double Beam UV-Spectrophotometer, HPLC, FTIR, Micro Plate Spectrophotometer, Visible Spectrophotometer etc. Each instrument have separate compartment and air condition facility with power backup is provided whenever required.

All laboratories and equipments are maintained properly. Maintenance facility is outsourced for equipments whenever required. The laboratories are

upgraded time to time by procuring equipments like Parallel Synthesizer, Spray Drier, Microplate Reader, Softwares etc. The animal house is upgraded according to the recommendations of CPCSEA guidelines.

The college has a well-established and maintained museum at different places. Museums are composed of human skeleton, drugs, different varieties of plants, crude drugs and specimens and marketed formulations.

**Table 4.2: Utilization of infrastructural facilities**

Laboratory	Year / Semester	Subject name with code	Learning resources
Pharmaceutics – I	Semester – I	112P Modern Dispensing Practices	It deals with formulation of suspension, emulsion, lotion and other pharmaceutical dosage forms.
	Semester – II	122P Dosage form Design	Facilities provided: Magnetic Stirrer, Dissolution Test Apparatus, Disintegrating Test Apparatus (Single and Double Basket), Bottle Filling Machine (liquid), Friability Test Apparatus, Ball Mill, Bottle Sealing Machine, Lipstick Moulds, Homogenizer, Double Glass Distillation Apparatus, Coating Pan, Deionizer, Conical Percolator and Mechanical Agitator
	T. Y .B. Pharm.	30118 Pharmaceutics – II	
Pharmaceutics – II	Semester – I	111P Pharmaceutics – I	It deals with formulation of suspension, emulsion, lotion, other pharmaceutical dosage forms.
	Semester – III	231P Physical Pharmaceutics – I	Facilities provided: Collapsible Tube Filling Machine, Ampoule Filling and Sealing Machine, Hand Operated Tablet Machine, Stage Micrometer, Ocular Eyepiece, Viscometer, Deep Freezer, Magnetic Stirrer and Test Sieves
	Semester – IV	241P Physical Pharmaceutics – II	
Pharmaceutics – III	Semester- III	232P Pharmaceutical Microbiology	It deals with identification, staining and count of microorganisms. Also preparation of different media for the growth of microorganism.
	Final Y. B. Pharm.	40118 Pharmaceutics – III	The formulation of different sterile dosage forms and their quality control parameters are studied. Facilities provided: Clean Room, Laminar Air Flow, Vertical Autoclave, Incubator,

			Colony Counter, Microscopes (oil immersion and compound), Instrument sterilizer, Clarity Test Equipment and Antibiotic Zone Reader
Machine Room	PG, UG and Ph.D.	Pharmaceutics, Quality Assurance Techniques	It deals with study of formulation of different dosage forms, their quality control aspects, study of different parameters, dissolution study etc. Facilities provided: Spray Drier, Leak Test Apparatus, Brookfield Viscometer, Multistation Rotary Tablet Machine, UV-Visible Spectrophotometer, Dissolution Test Apparatus, Coating Pan, Bulk Density Apparatus, Digital Programmable Friability Apparatus, Disintegrating Test Apparatus, Moisture Balance, Microcentrifuge and Capsule Filling Machine
Pharmaceutical Chemistry - I	Semester – I	113P Pharmaceutical Inorganic Chemistry	It deals with study of qualitative analysis of the compounds, preparation of inorganic compounds, standardization of the compounds, estimation of the blood and urine constituents, isolation of DNA and proteins, different titrations, assay methods, spectroscopic estimations. Facilities provided: Colorimeter, Centrifuges, Hot Air Oven, Electronic Digital Balance, Deep Freezer, Thermostatic Electric Water Bath, All Glass Distillation Apparatus, Melting Point Apparatus, Fuming Cup-Board and Vacuum Pump
	Semester – II	126P Pharmaceutical Analysis – I	
	Semester – III	233P Pharmaceutical Biochemistry	
	Semester – IV	242P Patho. and Clinical Biochemistry	
	Semester – IV	244P Pharmaceutical Analysis – II	
Pharmaceutical Chemistry – II	Semester – I	114P Pharmaceutical Organic Chemistry - I	
	Semester – II	123P Pharmaceutical Organic Chemistry – II	
	Semester – III	234P Pharmaceutical	

		Organic Chemistry – III	
	Semester – IV	243P Pharmaceutical Organic Chemistry – IV	
	Semester – IV	244P Pharmaceutical Analysis – II	
Pharmaceutical Chemistry – III	T. Y. B. Pharm.	30318 Pharmaceutical Medicinal Chemistry – I	It deals with the study of the synthesis of different drugs and their characterization. Facilities provided: Magnetic Stirrer, Hot Plate, Water Jet Vacuum Pump, Melting Point Apparatus, Hot Air Oven, Digital Electronic Balance
	Final Y. B. Pharm.	40318 Pharmaceutical Medicinal Chemistry - II	
Pharmaceutical Analysis	T. Y. B. Pharm.	30418 Pharmaceutical Analysis – II	It deals with the study of the spectroscopic estimation, analysis and spectral analysis of different drugs. Facilities provided: Double beam UV-Visible Spectrophotometer, Single Beam UV-Visible Spectrophotometer, Flame Photometer, Photofluorimeter/photofluorometer), Nephelo Turbidity Meter, pH Meter, Conductivity Meter, Karl-Fischer Apparatus, Abbe's Refractometer, Polarograph, Magnetic Stirrer and Sonicator
	Final Y. B. Pharm.	40418 Pharmaceutical Analysis – III	
Pharmacognosy	Semester – II	125P Pharmacognosy	It deals with the study of identification, extraction, isolation and characterization of crude drugs from herbal origin. Facilities provided: Simple, Compound and Digital Photographic Microscope, Drug Charts and Models, Clevenger Apparatus, Soxhlet Apparatus, Muffle Furnace, UV-Chamber, Electric Water Bath, Electronic balance, Hot Air Oven, Mixer, Projection Microscope, Heating Mantle
	Semester – III	236P Pharmacognosy and Phytochemistry – I	
	Semester – IV	245P Pharmacognosy and Phytochemistry – II	
	T. Y. B. Pharm.	30618 Pharmacognosy – II	
	Final Y. B. Pharm.	40618 Pharmacognosy	



		– III	
Pharmacology – I	Semester – I	115P Human Anatomy and Physiology – I	It deals with the study of human organs models, slides, WBC and RBC count and estimation of blood and urine constituents. Facilities provided: Human Skeleton, Models, Compound Microscope, WBC and RBC slide Haemoglobinometer, Charts, Hemodialysis Machine, Spirometer and Blood Pressure Measurement Apparatus
	Semester – II	124P Human Anatomy and Physiology – II	
	Semester – III	236P Pharmacognosy and Phytochemistry – I	
Pharmacology – II	T. Y. B. Pharm.	30518 Pharmacology – I	It deals with the study of different assay methods on different animal organs. Facilities provided: E-8 Student Kymograph drum, Rota-Rod Apparatus, Electroconvulsometer, Digital Photoactometer, Pole-Climbing Apparatus, Infrared Actiometer System and Student Organ Bath
	Final Y. B. Pharm.	40518 Pharmacology – II	
Pharmaceutical Chemistry Postgraduate Research	Semester – I	Advanced Pharmaceutical Chemistry	It deals with the study of synthesis and characterization of new compounds. Facilities provided: Parallel Reaction Synthesizer, Rotary Vacuum Evaporator, Scientific Microwave Oven, Digital Melting Point Apparatus, Heating Mantle, Electric Water Bath, Hot Air Oven, Water Jet Vacuum Pump and Deep Freezer, Molecular Modelling Softwares
	Semester – II	Advanced Medicinal Chemistry Drug Design	
Quality Assurance Techniques Postgraduate Research	Semester – I	Advanced Quality Assurance Techniques	It deals with study of IPQC on products. Facilities provided: Stability Test Chamber, Autoclave (fully automatic), Photofluometer, Electric Water Bath, All Glass Distillation Apparatus, Conductivity Meter, pH Meter and Test Sieves
	Semester – II	Pharmaceutical Validation	
Instrument Room	Semester – I	Advanced Analytical Techniques	It deals with the study of spectrophotometric analysis of the drugs and new compounds. Facilities provided:

			HPLC, FTIR Spectrophotometer, Microplate Spectrophotometer and UV-Visible Spectrophotometer
Pharmacology Postgraduate Research	Semester – I	Advanced Pharmacology	It deals with the study of different screening models for animals by using various drugs and natural isolated compounds. Facilities provided: Electroconvulsometer, Analgesimeter, Histamine Chamber, Digital Plethysmometer, E-8 Student Kymograph Drum, Organ Bath and Bacteriological Incubator
	Semester – II	Clinical Pharmacology	
Pharmaceutics Postgraduate Research	Semester – I	Advanced Pharmaceutics	It deals with study of formulation of different dosage forms, study of different quality control parameters, stability factors etc. Facilities provided: BOD Incubator, Orbital Shaking Incubator, Sonicator, Electric Water Bath, Heating Mantle, Aseptic Cabinet and Hot Air Oven
	Semester – II	Formulation and Development	
Ph.D. Research Laboratory			Research work

#### 4.1.9 Dentistry

Not applicable.

#### 4.1.10 Pharmacy

- \* **Pharmaceutical Science Laboratories**
- \* **Museum for drug formulations**
- \* **Machine room**
- \* **Herbarium / crude drug museum**
- \* **Balance room**
- \* **Chemical store**
- \* **Instrumentation facilities**
- \* **Pilot plant**
- \* **Computer aided laboratory**



Pharmaceutics Laboratory I



Pharmaceutics Laboratory II



Pharmaceutics Laboratory III

**Fig 4.1: Department of Pharmaceutics**



Pharmaceutical Chemistry Laboratory I





Pharmaceutical Chemistry Laboratory II



Pharmaceutical Chemistry Laboratory III



Pharmaceutical Analysis Laboratory

**Fig 4.2: Department of Pharmaceutical Chemistry**



Pharmacognosy Laboratory I

**Fig 4.3: Department of Pharmacognosy**



Pharmacology Laboratory I



Pharmacology Laboratory II  
**Fig 4.4: Department of Pharmacology**



Pharmaceutics Postgraduate Laboratory

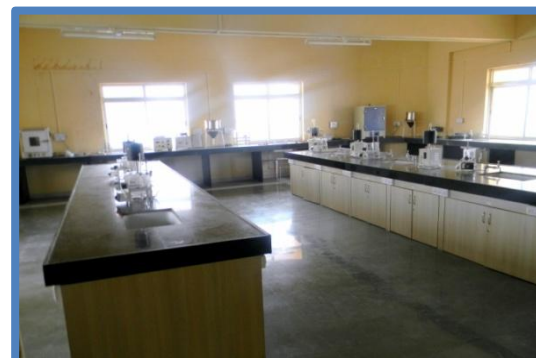


Pharmaceutical Chemistry Postgraduate Laboratory





Quality Assurance Techniques Postgraduate Laboratory



Pharmacology Postgraduate Laboratory



Ph.D. Research Laboratory

**Fig 4.5: Postgraduate and Ph.D. Research Laboratories**



Rotary Tablet Machine



Spray Dryer



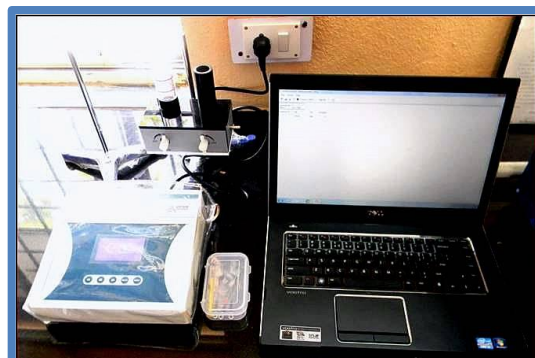
FT-IR Spectrophotometer



HPLC Spectrophotometer



Multistation Reactor



Digital Plethysmometer



Epoch Microplate Spectrophotometer



Digital Hole Board cum Actimeter

**Fig 4.6: Sophisticated Instruments**



**Fig 4.7: CADD Laboratory**





**Fig 4.8: Computer Centre**



**Fig 4.9: Library**



**Fig 4.10: Machine Room**



**Fig 4.11: Animal House**



**Fig 4.12: Instrument Room**



**Fig 4.13: Store Department**



**Fig 4.14: Museum**



**Fig 4.15: Medicinal Garden**



#### 4.1.11 Yoga and Naturopathy

Not applicable.

#### 4.1.12 Homoeopathy

Not applicable.

#### 4.1.13 Nursing

Not applicable.

#### 4.1.14 Ayurveda

Not applicable.

#### 4.1.15 Does the institution have the following facilities? If so, indicate its special features, if any.

\* Meditation Hall

\* Naturopathy blocks

Not applicable.

#### 4.1.16 Provide details of sophisticated equipments procured during the last four years.

**Table 4.3: List of sophisticated equipments procured during the last four years**

Name of the equipments	Qty.	Make / Specification	Department
<b>Year 2010-11</b>			
Projection Microscope	01	Make-Labline Cot No: LSC pm 20	Pharmacognosy
Rocking Microtome Cambridge Type	01	Make-Dolphin	Pharmacology
Analgesiometer Eddy Hot Plate	01	Make-Orchid Model No: BH-01	Pharmacology
Electro Convulsimeter with digital AC	01	Make-Orchid Model No: EC-01 A/C Voltmeter Digital	Pharmacology
Microprocessor Control Stability Test Chamber	01	Make-Remi	Pharmacology
Jasco UV-Visible Spectrophotometer	02	Make-Jasco Model: V-630 Wavelength 190-1100nm	Pharmaceutical Chemistry
<b>Year 2012-13</b>			
VLife Molecular Modeling Software	01	Make-VLife Modules: VLife Base, VLife Engine, Biopredicter, QSAR Plus, Mol Sign, Lead Grow, ChemDBj, Proviz Add On module GQSAR, Scope	Pharmaceutical Chemistry

Parallel Reaction Station	01	Make-Radley Carousel 6 Plus Reaction station Carousel Tech Stirring Hot Plate, Ptfe Magnetic Stirring Bar Retrifer, Reaction Flask, Reflux Tube, Rotary Evaporator	Pharmaceutical Chemistry
Digital Plethysmometer	01	Make-Orchid With Pc Connectivity Model No: PLM 01 PlusAcc: 0.02 ml Resolution	Pharmacology
Actimeter-cum-Hole Board	01	Make-Orchid Model No: ACT- 01 Plus std. Accessories and IR Tracking software Acc: 0.02 ml Infrared Photocell – 32(16 Placed X axis and 16 placed Y Axis)	Pharmacology
Epoch Microplate Spectrophotometer	01	Make-Biotek 3 Multi volume Plate Abs Wavelength: 200nm to 999nm Bandwidth: 5 nm Resolution: 0.0001OD	Pharmaceutical Chemistry
<b>Year 2013-14</b>			
R & D Multi-Purpose Lab Machine	01	Make-Cemach Main Drive (Vertical) Universal Gear Pellati Jar	Pharmaceutics
Punches and Dies	03 set	Make-Electrolab D type Tooling Dia.22, 14, 3,22mm.	Pharmaceutics
Leak Test Apparatus	01	Make-Veege Model: GMP LTA 300 complete	Pharmaceutics
<b>Year 2014-15</b>			
Dissolution Test Apparatus with 08 Basket	01	Make-Electrolab With LCD Display and all Std. Acc. Model TDTY-08L	Pharmaceutics
Ceweka Sieve Shaker	01	Cap: 10Kg	Pharmaceutics

## 4.2 Clinical Learning Resources

### 4.2.1 Teaching Hospital

Not applicable.

### 4.2.2 What specific features have been included for clinical learning in

**the out-patient, bedside, community and other clinical teaching sites?**

Not applicable.

### 4.3 Library as a Learning Resource

**4.3.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been implemented by the committee to render the library student/user friendly?**

Yes, library has advisory committee.

**Table 4.4: Composition of library advisory committee**

Sr. no.	Name	Designation	Post
1.	Prof. Dr. P. Y. Pawar	Principal	Chairman
2.	Prof. Dr. R. L. Sawant	Head, Dept. of Pharma Chemistry and PG studies	Member
3.	Prof. Ms. J. B. Wadekar	Assistant Professor	Member
4.	Mrs. S. A. Virole	Librarian	Member Secretary

The Committee observes the efficient working of library. Following are the initiatives taken by advisory committee in the interest of the users.

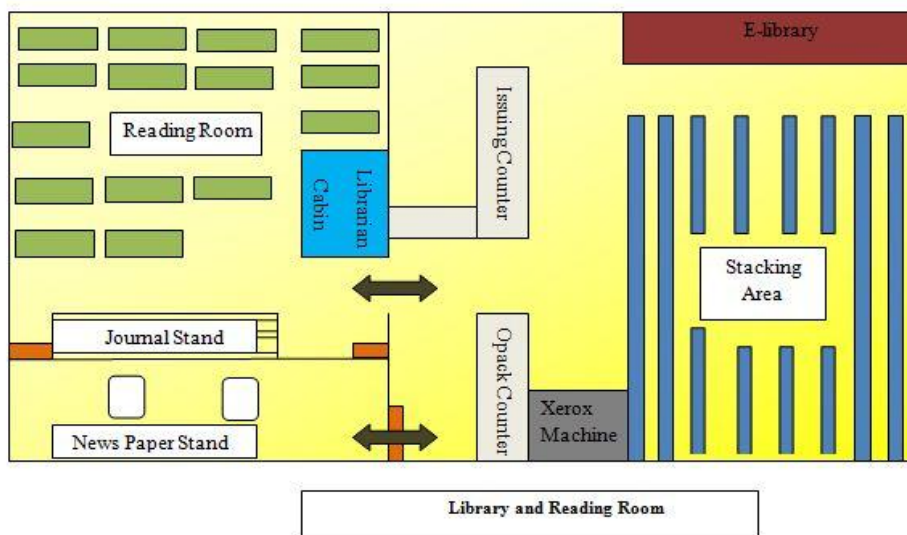
- New arrivals display.
- OPAC software for quick searching of books.
- Modernization of book bank facility.
- Modernization of study room.
- Maintenance of user register.
- Updation of books, journals and other study matter.
- Implementation of feedback and suggestions system to provide good library services.
- Provision of reprography facility.
- Orientation programs for students and faculty for using library facilities.
- Inviting suggestion from staff members for purchase of the recent books.
- Upgradation of e-library.
- Maintenance and safety of books and journals.
- Library renovation and up gradation as per the changing needs of educational program.
- Separate section for books, journal, periodicals, thesis etc.
- Separation of books as per specialization.
- Revision of library timing.

### 4.3.2 Provide details of the following:

- \* **Total area of the library (in Sq. Mts.)**
- \* **Total seating capacity**
- \* **Working hours (on working days, on holidays, before examination, during examination, during vacation)**

- \* **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- \* **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection**

The total area of the library is 230 Sq. Mts. with seating capacity 100. The working hours of library are 09:20-17:20. Library has enough books issuing counter, computers, internet, xerox and air conditioned reading room facility.



**Fig 4.16: Layout of the library**

The college has displayed floor plan; sufficient sign boards and well maintained fire extinguishers. Library staff provides personal assistance to differently-abled persons in utilizing library facilities effectively.

**Table 4.5: List of library staff with their qualification**

Name	Qualification	Designation
Mrs. S. A. Virole	M.A., M. Lib. M. Phil	Assistant Librarian
Mrs. G. L. Pawar	M. Lib.	Library Assistant
Mr. N. G. Walke	S.S.C.	Attendant

#### 4.3.3 Give details of the library holdings:

- \* **Print (books, back volumes, theses, journals)**
- \* **Average number of books added during the last three years**
- \* **Non Print (Microfiche, AV)**
- \* **Electronic (e-books, e-journals)**
- \* **Special collections (e.g. text books, reference books, standards, patents)**
- \* **Book bank**
- \* **Question bank**

**Table 4.6: Details of library holdings**

Particulars	Number
No. of books	12262
No. of reference books	343



No. of titles	1753
Theses	116
Journals	26
Magazines	03
Back volumes	150

During last three years average 1889 books were added. As a non print media college has CDs, DVDs and slides. International e-journals of Elsevier and Bentham Science Publishers, educational CDs (e-books) are available as electronic media. Under special collection AICTE hand books, PCI hand books, dictionaries and official books are available in library for users. Journals in which publications of staff appears are also available in library. Book bank facility is available for reserve category students where total 1904 books are available for circulation. The library also provides subject wise question bank.

**4.3.4 To what extent is ICT deployed in the library? Give details with regard to**

- \* **Library automation**
- \* **Total number of computers for general access**
- \* **Total numbers of printers for general access**
- \* **Internet band width speed    □ 2mbps   □ 10 mbps   □ 1 GB**
- \* **Institutional Repository**
- \* **Content management system for e-learning Participation in resource sharing networks/consortia (like INFLIBNET)**

The library is equipped with Digital Soft Lib. Synchronic software. Two computers and one printer are available in library for general use. College has broad band internet connection with 2 mbps band width speed. Further library provides CDs, e-books, e-journals and DVDs as e-learning resources.

**4.3.5 Give details of specialized services provided by the library with regard to**

- \* **Manuscripts**
- \* **Reference**
- \* **Reprography / scanning**
- \* **Inter-library Loan Service**
- \* **Information Deployment and Notification**
- \* **OPACS**
- \* **Internet Access**
- \* **Downloads**
- \* **Printouts**
- \* **Reading list/ Bibliography compilation**
- \* **In-house/remote access to e-resources**
- \* **User Orientation**
- \* **Assistance in searching Databases**
- \* **INFLIBNET/HELINET**

In library reference books are easily accessible to the students and are arranged in separate racks. Reprographic facility is available. College has inter-library loan services with sister concern medical college and MBA

college. Information Deployment and Notification facilities are available in the library. The job opportunities and different notifications are displayed on notice boards. The newly purchased books are stacked in separate racks. The OPAC system is available in library. The internet and Download facility is available to students and faculty members.

In-house types of e-resources are available, which can be accessed through internet and CDs.

During orientation programme for newly admitted students, the librarian explains rules and regulations regarding library use. Further, orientation programme on how to use e-journals or Elsevier and Bentham Science Publishers and data available online are also arranged from time to time. Librarian provides assistance to students in searching database.

#### 4.3.6 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

**Table 4.7: Annual library budget of last four year**

Year	Books, journals and e-journals	
	Sanctioned (₹ in Lakh)	Utilized (₹ in Lakh)
2013-14	6.50	6.36
2012-13	11.90	11.85
2011-12	9.65	9.61
2010-11	7.25	6.92

#### 4.3.7 What are the strategies used by the library to collect feedback from its users? How is the feedback analyzed and used for the improvement of the library services?

Yes, the library has a feedback system. The suggestions are written in suggestion book by the users. The advisory committee analyses the suggestions and takes appropriate decision to improve the library services.

#### 4.3.8 List the efforts made towards the infrastructural development of the library in the last four years.

Reading room was made air conditioned to provide better environment for users. Stacking area was rearranged with the addition of new racks. The required furniture was made available in the library.

### 4.4 IT Infrastructure

#### 4.4.1 Does the institution have a comprehensive IT policy with regard to:

- \* IT Service Management
- \* Information Security
- \* Network Security
- \* Risk Management
- \* Software Asset Management
- \* Open Source Resources
- \* Green Computing

Our college is providing complete IT facilities with proper network security and sufficient access to data on internet. The college has provided all the

system and necessary application softwares as per AICTE norms. The full time system administrator has been appointed to maintain IT services.

The college is maintaining the security and confidentiality of the data available on computer networks. All users are responsible for protecting those resources and the information used, stored or transmitted.

College is providing network security by allowing moderate access to content on internet. The college also maintains the national laws regarding the use and confidentiality of the data available on network systems. To prevent the misuse of data and violation of laws related to security, the college has appointed the full time system administrator and also taking help of advanced softwares like Fortiguard Web Filtering.

The objective of our college is to minimize the risks by limited exposure to data on internet. This is useful in preventing undesired event or adverse effects, while simultaneously increasing the efficiency and usefulness of its operations in accordance with best practices recommended.

The college has all the required softwares which are procured by following routine procedure and are maintained by system administrator along with annual maintenance contract. The college is bound to manage its software assets to deliver maximum benefit to its users. Further college ensures that all members of the computing users use, reproduce, distribute, transmit, and use computer software in compliance with the national laws.

Our college encourages the active use of open source products, either operating systems or specific applications and encourages environment for creating open source solutions and to keep IT related expenditure at a minimum.

Our college is devoted to maintain the environment by using minimum power consumption, IT upkeep practices, and to dispose all IT wastes in environmentally sustainable manner.

#### **4.4.2 How does the institution maintain and update the following services?**

- \* **Hospital Management Information System (HMIS)**
- \* **Electronic Medical Records System (EMR)**
- \* **Digital diagnostic and imaging systems including PACS**

Not applicable.

#### **4.4.3 Give details of the institution's computing facilities i.e., hardware and software.**

- \* **Number of systems with individual configurations**
- \* **Computer-student ratio**
- \* **Dedicated computing facilities**
- \* **LAN facility**
- \* **Proprietary software**
- \* **Wi-Fi facility**

College has central computer room and 103 computers out of that about 100 are provided with internet facility. Dedicated computer facility is provided and computer- student ratio is 1:3. LAN facility is provided with cat 6 LAN cable. College also contains 12 proprietary softwares for users.

**Table 4.8: List of computers with individual configuration**

<b>Sr. no.</b>	<b>Configuration</b>	<b>Qty.</b>	<b>Location</b>
<b>1.</b>	P-VI Computer, Intel- 2.4 GHz, Intel 845 GVSRL Motherboard, 256 MB DDR Ram, 40 GB HDD, 1.44 MB FDD, 52x CD Rom, 15' Color Monitor, White LG., ATX Cabinet, PS2 K/M	36	25 Store department 05 Library 01 Pharmaceutics lab 02 Machine room 01 Pharmaceutical analysis lab 02 Pharmaceutical chemistry lab
<b>2.</b>	Intel Core i3 3.30GHz, Processor Asus 1.846/M2X Motherboard, 2 GB DDR 3 Ram, 320GB HDD, Dell LCD 18.5, ATX Cabinet, PS2 K/M	49	New computer centre
<b>3.</b>	Intel Dual Core 2.6 GHz, Intel 945 Motherboard, 160/320 GB HDD, LG LCD 15.6, Ram DDR-2 Dynet -1/2 GB, LG DVD Writer, Cabinet ATX, PS2 K/M	06	02 Library section 01 Student section 01 Account section 01 Pharmacology lab 01 Establishment section
<b>4.</b>	Intel Dual Core, 2.0 GHz, E-2180, Intel G-33 Express Board, 160 GB HDD, DDR-2- 2 GB Ram, DVD Writer, HP 17' TFT LCD, Monitor with UPSATX Cabinet	01	Account section
<b>5.</b>	Acer Veriton 5719 VX, Intel Core i3, 3.40 GHz, 2 GB Ram, 500 GB HDD, Acer 18.5 LED, 1GB PCI Asus Card , LG DVD Writer, USB K/M	01	Principal office
<b>6.</b>	Intel Core i3, 3.30GHz Processor, Asus 1.846/M2X Motherboard, 2 GB DDR 3 Ram, 320 GB HDD, Dell LCD 18.5, ATX Cabinet, PS2 K/M	01	Exam section
<b>7.</b>	Acer Veriton, Intel Dual Core 2.90GHz 2 GB Ram, 500 GB HDD, Acer 18.5 LED, LG DVD Writer, USB K/M, UPS 600V Sukam	01	Pharmaceutical analysis lab
<b>8.</b>	HCL Machine, Intel Dual Core, 3.0 GHz ,2 GB Ram, 160 GB HDD, 19'TFT HCL Monitor, Multimedia K/M, Speaker set	01	Pharmaceutical analysis lab
<b>9.</b>	P3 Machine, Genuine Intel x86 Family 15 Model 1 Stepping 3, S3 Graphic Prosavage, Floppy Disk 1.44,40 GB HDD, 256 MB Ram, Samtron 15'Color Monitor, AT Cabinet	01	Pharmaceutical analysis lab
<b>10.</b>	HCL Machine, Intel Dual Core 2.8	02	01 Pharmacognosy

	GHz, 2 GB Ram, 1 GB Graphic Card, 500 GB HDD, HCL 19 TFT Monitor, LG DVD Writer, ATX Cabinet, K/M		lab 01 Instrument lab
11.	Intel Core to Duo 2.93 GHz, 1GB Ram, 500 GB HDD, AOC 15.6 LCD Monitor, LG DVD Writer, ATX Cabinet, K/M	02	01 Instrument lab 01 Machine room
12.	Intel Dual Core 2.5 GHz, Intel 945 Motherboard, 250 GB HDD, Ram DDR-2 Dynet - 1GB, LG DVD Writer, Cabinet ATX, PS2 K/M	02	Instrument room

**Table 4.9: Details of printer information**

Sr. no.	Name	Specification	Qty.	Location
1.	HP Laserjet 1020 Plus	Make-HP Model No. CC418A Sr. No. CNCYO7727	01	New computer centre
2.	HP Deskjet 4488 All in One Print/Scan/ Copy	Make-HP Sr. No. CN98DBM2ZN FPU NO. CB745-64001 All In One Print/Scan/ Copy	01	New computer centre
3.	HP PSC All in One 1315 Print/Scan/Copy	Make-HP Sr. No. MY49GCD2D5 Product No. Q5763A	01	New computer centre
4.	HP 1020 Plus Laserjet Printer	Make-HP Sr. No. CNCH345829 Product No. CC418A	01	Exam section
5.	Cannon LBP2900B Laserjet Printer	Make-Cannon L11121E 220-240V 50/60Hz	01	Account section
6.	HP Laserjet 1010	Make-HP Sr. No. SGFB191841	01	Student section
7.	HP 1020 Plus Laserjet Printer	Make-HP Sr. No. VNC 3624534 Product No. CC48A KETIHU10335-600ZA	01	Establishment section
8.	HP 1020 Plus Laserjet Printer	Make-HP Sr. No. CNCH126047 Product No. CC418A	01	Pharmaceutical analysis lab
9.	Cannon LBP2900B Laserjet Printer	Make-Cannon L11121E 220-240V 50/60Hz 3.3A	01	Instrument lab
10.	Cannon LBP2900B Laserjet Printer	Make-Cannon L11121E 220-240V 50/60Hz 3.3A	01	Pharmaceutics

11.	Xerox Phaser 3122 Laserjet Printer	Make- Xerox Phaser Sr. No. L95132482	01	Machine room
12.	Xerox Phaser 3117 Laserjet Printer	Make- Xerox Phaser Sr. No. L93764555	01	Instrument room
13.	HP Deskjet 1000 Inkjet Printer	Make-HP Sr. No. CNOBF25KFX FPU No. CH340-64001	01	Machine room
14.	Epson LQ 1150 II Printer	Make-Epson Model No.173V Sr. No. 98CY097841	01	Store
15.	HP Color Laserjet CM1312 NFI MFP Printer Print/Scan/Copy /Fax	Make-HP Sr. No. CNC88DHN67 Product No. CC431A	01	Principal office
16.	HP Laserjet M1213 NF MFP Printer Print/Scan/ Copy/Fax	Make-HP Sr. No. CN18FCX4BC Product No. CE845A	01	Principal office
17.	Epson L210 Color Printer Scan/Print/Copy	Make-Epson Sr. No. C2AE120273 Inbuilt Ink Tank	01	Library
18.	Cannon Make A-4 Size Lide 100 Scanner	Make-Cannon Flat bed Scanner With PDF	01	Establishment section
19.	Epson LX 300+	Make-P170A Sr. No. C8FY.180326	01	Pharmaceutical analysis lab

**Table 4.10: Details of laptop**

Name	Specification	Qty.	Location
Dell laptop	Make-Dell Intel Core i3 2.10 GHz Vostro Notebook, V3550, 15.6 Screen, 500 GB HDD, 2 GB Ram	01	Computer centre

**Table 4.11: Details of application and system software Information**

Sr. no.	Name	Specification	Qty.	Location
1.	Digital Library Software	Automation Software Digisoft lib.5.0 Application software (Unlimited user)	01	Library
2.	Tally	Tally Software9.0	01	Account section



	software	Multiuser Application Software Sr. No.732149622 Key No. 5HXIA15MQ		
3.	VLife MDS Beta Software	Molecular Design Suite Perpetual License Application Software	01	Pharmaceutical analysis lab
4.	Acrobat Professional Version10 License 1 User	Windows International English AOO License 1 User Pool Application Media Downloadable	01	Computer centre
5.	BCL Easy PDF Printer Single user License	Single User Application Software (Word/excel/any Printable File to PDF) Media Downloadable	01	Computer centre
6.	Corel Video Studio x4 ProCD	Single User Application Software Make Video/edit/create CD DVD	01	Computer centre
7.	BCL All PDF Converter	Single User Application Software Convert Word to PDF/Make PDF/Edit PDF	01	Computer centre
8.	MS Office 2010 Software	021-09685 Office Std 2010 Single OLP NL Academic With Media	01	Computer centre
9.	Win Server 2008 With 5 cal with media	Single OLP NL R2 Academic Software	01	Computer centre
10.	VLife MDS 4.0 License with single machine Acer Veriton	Molecular Design Suite Application Software VLife Base, VLife Engine Biopredicta GQSAR 3COPE	01	Pharmaceutical analysis lab
11.	Windows XP SP-2 Pro Software	Single user System software Service pack - 2 Professional	01	Computer centre
12.	Win Starter 7 Get Genuine Win pro7	Win starter7 Single OLP N 1 Academic Legalization get genuine with media upgrade to FQC-02312 win pro 7 SNGL upgrade OLP NL Academic with Media	01	Computer centre

**Table 4.12: Details of LCD projector information**

Sr. no.	Name	Specification	Qty.	Location
1.	LCD projector	Make-Sony Model No.VPL-ES3 Data Projector Sr. No. 3039398637	01	Computer centre
2.	LCD projector	Make-Sony Model No. VPL-EX7 Data Projector Sr. No. 73016279475	01	Computer centre
3.	LCD projector	Make-Dell Model No.1510X 3500ANSi Lumens	02	Computer centre

**Table 4.13: Details of UPS information**

Sr. no.	Name	Specification	Qty.	Location
1.	Champion UPS	Make-Champion Model 600 VA	04	Pharmaceutical analysis lab (03) Library (01)
2.	Intex UPS	Make-Intex 600 vA	01	Establishment section
3.	Online UPS 5 KVA	Make-Electro Power Ltd.192v System 30 min Backup 16 Nos.12v Battries	01	Computer centre
4.	UPS 1 KVA	Make-Power Safe 1 KVA 30 mi. Backup	01	Seminar hall
5.	Champion UPS	Make-Champion Model 600 VA	03	Pharmaceutics (01) Library (02)
6.	IntexuPS	Make-Intex 600 vA	01	Student section
7.	IntexuPS	Make-Intex 600 vA	01	Account section
8.	IntexuPS	Make-Intex 600 vA	01	Principal office
9.	IntexuPS	Make-Intex 600 vA	01	Exam. section

**Table 4.14: Details of stabilizer information**

Name	Specification	Qty.	Location
Stabilizer	Make Servo 1.3 KVA	02	Pharmaceutics

#### **4.4.4 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

The college is planning to setup Wi-Fi facility in order to encourage use of data available online. To facilitate this, the classrooms will be equipped with the LCD projector. Further college is planning to install CCTV cameras to enhance the security and effective use of IT infrastructure.

#### **4.4.5 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching-learning and research.**

The college library subscribes 93 international e-journals of Elsevier and Bentham Science publishers. The library has access to CDs for independent learning these systems act as a facilitator for teacher and students.

**4.4.6 What are the new technologies deployed by the institution in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?**

Most of the teaching and learning processes are prepared to electronic format like power point presentations. The students are encouraged to use different softwares like molecular modeling software to understand the various aspects of drug-receptor interactions. All the students are allowed to handle and use different sophisticated instruments like HPLC, FT-IR, and UV spectrophotometer.

**4.4.7 What are the IT facilities available to individual teachers for effective teaching and quality research?**

The college provides internet connection through lease line which gives high speed connectivity and fast speed downloading facility. The faculty uses ICT resources for teaching learning and research work. The seminar hall has been equipped with LCD projector system. The college has adequate computer facility for its faculty and students. To add, all the departments are well equipped with computer and internet facility. The faculty takes help of ICT resources to complete their prescribed curriculum. Also a separate computer system and LCD are made available as per requirement of teacher.

**4.4.8 Give details of ICT-enabled classrooms/learning spaces available within the institution. How are they utilized for enhancing the quality of teaching and learning?**

In our college, all classrooms and seminar halls are provided with LCD projector facility to create an interactive and immersive learning experience for the students.

**4.4.9 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the institution for such initiatives?**

The college has sufficient computer facility with internet connection. All the departments have computers with internet connection which is helpful in preparing the computer – aided teaching learning materials. Orientation is given to faculty for use of computers and internet. The facilities available in the college for computer-aided teaching are internet facility, laptops, LCDs, CDs and pen drives to store the data and computers at department levels, CDs of various books, downloaded materials from internet stored in CDs, CDs of simulated experiments for demonstration purposes, Chemdraw software for chemistry and laser pointer for the effective presentations.

**4.4.10 Does the institution have annual maintenance contract for the computers and its accessories?**

College has qualified system administrator for maintaining all software and hardware issues. If needed these services are outsourced from time to time.

**4.4.11 Does the institution avail of the National Knowledge Network (NKN) connectivity? If so, what are the services availed of?**

No.

**4.4.12 Does the institution avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?**

The faculty advises the students to make use of all standard and academically rigorous internet resources that help them in the learning and enhancing their understanding.

**4.4.13 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the institution.**

**Table 4.15: Budget during last four year for procurement and maintenance of computer facility**

Sr. no.	Year	Amount (₹ in Lakh)
1.	2013-14	04.67
2.	2012-13	12.38
3.	2011-12	14.05
4.	2010-11	08.79

**4.4.14 What plans have been envisioned for the transfer of teaching and learning from closed institution information network to open environment?**

No.

**4.5 Maintenance of Campus Facilities**

**4.5.1 Does the institution have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

Yes, the college has an estate office/civil department headed by civil engineer for monitoring and regulating the maintenance of building, class room and laboratories. He controls all the activity regarding construction and maintenance of physical infrastructure, buildings and water supply.

Initiatives undertaken are:

- Renovation of animal house which is fully air conditioned.
- Building expansion as per requirement of added programme.
- Renovation of entrance and coloring of building.
- Gardening and landscaping in and around the college.

**4.5.2 How are the infrastructure facilities, services and equipments maintained? Give details.**

- \* **Maintenance of Building**
- \* **Transportation**
- \* **Electric facilities**
- \* **Maintenance and Utilization of Computing Facilities**
- \* **Building Hygiene**

The college has enough budgetary allocation for development and maintenance of infrastructure and facilities. The demonstration of working and maintenance of every new instrument or equipment is arranged for faculty and supporting staff whereas use of sophisticated instruments and their maintenance is done under the supervision of incharge. SOPs, log books of all instruments are maintained. While installing the instruments, installation guidelines provided by manufacturer are strictly followed. The sensitive equipment's are placed in air-conditioned central instrument room. Students are instructed to follow standard operating procedures strictly during uses of instrument. In all other laboratories, voltage stabilizers are connected with major equipments. All the instruments are regularly checked or repaired by service engineers. There is full bloom office overlooks for construction and maintenance of physical infrastructure.

The principal, on the basis of broad view development plan, recommends the infrastructural intensification needs to the concerned authorities. The college development fund is utilized for maintenance and minor repairs of furniture and equipments. The devoted civil department prepares proposal and estimated cost of the planned construction project and submits it to management. If management satisfied, approves and allocates the funds.

The college provides transportation facilities to students, drivers having valid driving license are allowed to drive the vehicle. The vehicles are insured and tested for pollution.

The college has an electrical department which comprises a team of electrician headed by an electric engineer. All the electrical maintenance is done by our electrical department. The college has a competent power supplier and also self-sufficient generator for power backup. The routine checks for all electrical equipment are carried out by devoted electrical department.

Maintenance of computer facilities is done by system administrator. Staff and students utilize computing facilities throughout the day. The complaint or repair occurs regarding computing facility, is attended by system administrator and if required outsourced from sister concern units.

The college has devoted staff for dry and wet sweeping and cleaning associated activities. The sweeping is done twice or thrice daily to maintain the cleanliness. A separate person is allotted to clean the wash rooms and associated premises. The garden and amenity area is also maintained by concern persons.

#### **4.5.3 Has the institution insured its equipments and buildings?**

Yes, building and equipments of college are insured with New India insurance company.

#### **Any other information regarding Infrastructure and Learning Resources which the institution would like to include.**

The college has express feeder electric supply and generator back up for continuous electric supply. Further the college is connected by public transportation facility and has sufficient water supply.

## CRITERION V: STUDENT SUPPORT AND PROGRESSION

### 5.1 Student Mentoring and Support

#### 5.1.1 Does the institution have a system for student support and mentoring? If yes, what are its structural and functional features?

Yes, the college has a well structured system for student support and mentoring. The system strictly focuses on proper counseling to the students for their difficulties and problems.

Class teachers are appointed for each class. Three mentors are allotted to each class with 20 students per mentor, who counsel students regarding their academic performance, attendance, examination, hostel and any other student related problems.

The teacher counsels every student allotted on one to one basis for academic, personal and psycho-social guidance. A separate mentoring sheet has been prepared which includes all personal details like name, date of birth, blood group, category, scholarship details, address, mobile number of student and parents, email ID, family history, interest in extra-curricular, cultural, sports activities, academic details, monthly minutes of the mentoring with student or his parents and details of previous academic year along with university exam marks.

#### 5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Apart from classroom interactions, students can freely meet their mentors any time if needed. Students are personally guided for filling up of scholarship and freeship forms in the given stipulated time.

Slow learners are offered remedial and tutorial classes to improve their understanding and academic performance.

Students are also encouraged for project works and also guided regarding how to carry out literature survey, how to do research work, presentation and publication of scientific papers in reputed journals.

#### 5.1.3 Does the institution have any personal enhancement and development schemes such as career counseling, soft skills development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

The placement cell has been constituted to take care of career counseling, soft skills development, career-path-identification, and orientation to well-being for the students.

**Table 5.1: Constitution of placement cell**

Sr. no.	Name	Designation	Post
1.	Dr. S.Z. Chemate	Professor	Co-ordinator
2.	Prof. A.W. Ambekar	Assistant Professor	Member
3.	Prof. A.K. Nangare	Assistant Professor	Member
4.	Prof. S.A. Hapse	Assistant Professor	Member
5.	Prof. N.S. Mhaske	Assistant Professor	Member

The placement cell maintains the resume of final year students. They invite



senior professionals from industry for seminars, guest lectures and conferences and for campus interviews.

Our placement cell team is fully committed to maintain close contact with the recruiters and to meet the individual needs of students and ensuring their placements for launching their professional careers.

The faculty members also guide and counsel the students in career related issues.

Final year B. Pharm. students undergo one month industrial training and postgraduate students undergo industrial research projects in the pharmaceutical industry, which helps them for finding their career-path in different segments of industry like analytical development laboratory, research and development, manufacturing, marketing.

The students are being taught spoken English as a part of their curriculum through subjects like Communication Soft Skill Development (CSSD) and Computer Fundamentals.

#### **5.1.4 Does the institution have facilities for psycho social counseling for students?**

Yes, the college has facilities for psycho social counseling for students. As a part of it psychologists are invited in college to interact with students, who conducts seminar and test to measure the emotional intelligence of the students and grade them. The mentors are intimated regarding the grade of the student they obtained in the test and are counseled accordingly.

College also provides special guidance to students to overcome the problems like social aspects related to society, economic problem, depression, home sickness etc. by discussion with class mentor and class teacher who is closely associated with the students.

In special cases, the principal and senior faculties are also involved in overall counseling of the student.

#### **5.1.5 Does the institution provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Yes, the college provides assistance to students for obtaining educational loans from banks and other financial institutions. The college issues expenditure plan with details of the fee structure along with the bonafide certificate which are required to avail educational loans.

**Table 5.2: List of banks for availed educational loans**

<b>Sr. no.</b>	<b>Name of banks</b>
<b>1.</b>	State Bank of India
<b>2.</b>	Canara Bank
<b>3.</b>	Bank of Maharashtra
<b>4.</b>	Central Bank of India
<b>5.</b>	Union Bank of India

#### **5.1.6 Does the institution publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

Yes, the prospectus of our college is published annually which includes, the vision, mission and objectives of the college, the governing body as well as faculty members along with their qualification and designation, college philosophy and course structure offered, location and infrastructure of the campus, with the details of courses offered and curriculum of the courses, rules and regulations prescribed by the Savitribai Phule Pune University, with respect to attendance, discipline, ragging and hostel, special achievements of the college, eligibility, allocation of seats and the application forms along with details of tuition fees and hostel fees and mode of payment of fees.

It also includes detail information regarding government scholarship schemes available at the college, extracurricular and co-curricular activities like seminar, workshops, conferences, staff development programme, annual gathering, sports and cultural activities carried out for the students, training and placement activity of the college with its infrastructural photo gallery.

At the time of admission every student is being provided with a copy of prospectus with admission form of the respective course.

The link for online access is available on our web site, <http://www.vikhepharmacynagar.com/>

**5.1.7 Specify the type and number of institution scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details. (in a tabular form)**

**Table 5.3: Details of freeships/concessions/scholarships given to the undergraduate students during last four years**

Financial aid	2011-12		2012-13		2013-14		2014-15	
	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)
Scholarship/Freeship	144	7396927	153	8861732	128	7666867	141	9635509
EBC Scholarship	61	2136356	58	2141287	62	2267692	66	2607629
Minority Scholarship	05	125000	03	75000	01	25000	03	75000

**Table 5.4: Details of free ships/ concessions /scholarships given to the postgraduate students during last four years**

Financial aid	2011-12		2012-13		2013-14		2014-15	
	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)	No. of beneficiaries	Amount (₹)
Scholarship/Freeship	11	830235	14	1125484	25	2231785	28	2506440
Minority Scholarship	00	00	00	00	01	25000	01	25000

**5.1.8 What percentage of students receive financial assistance from state government, central government and other national agencies?**

**Table 5.5: The percentage of undergraduate students receiving financial assistance during last four years**

Sr. no.	Years	Financial agency	Type of scholarship/ freeship	Percentage of benefited students
1.	2011-12	Govt. of Maharashtra	Scholarship/Freeship	53.13
2.			EBC scholarship	22.50
3.			Minority scholarship	01.84
4.	2012-13	Govt. of Maharashtra	Scholarship/Freeship	56.25
5.			EBC scholarship	21.32
6.			Minority scholarship	01.10
7.	2013-14	Govt. of Maharashtra	Scholarship/Freeship	48.30
8.			EBC scholarship	23.39
9.			Minority scholarship	00.37
10.	2014-15	Govt. of Maharashtra	Scholarship/Free ship	55.51
11.			EBC scholarship	25.98
12.			Minority scholarship	01.18

**Table 5.6: The percentage of postgraduate students receiving financial assistance during last four years**

Sr. no.	Year	Financial agency	Type of Scholarship/ Freeship	Percentage of benefited Students
1.	2011-12	Govt. of Maharashtra Central Govt. (AICTE)	Scholarship Stipend	15.94 29.41
2.	2012-13	Govt. of Maharashtra Central Govt. (AICTE)	Scholarship Stipend	22.22 00
3.	2013-14	Govt. of Maharashtra Govt. of Maharashtra Central Govt. (AICTE)	Scholarship Minority scholarship Stipend	37.87 01.51 17.14
4.	2014-15	Govt. of Maharashtra Govt. of Maharashtra Central Govt. (AICTE)	Scholarship Minority scholarship Stipend	36.36 01.29 21.95
5.	2014-15	Govt. of Maharashtra Govt. of Maharashtra Central Govt. (AICTE)	Scholarship Minority scholarship Stipend	36.36 01.29 21.95

The percentage of Ph.D. students receiving financial assistance during last four years:

Savitribai Phule Pune University offers a Scholarship of ₹ 6000/- to students who are admitted to the Ph.D. course.

#### **5.1.9 Does the institution have an International Student Cell to attract foreign students and cater to their needs?**

There is a provision for admission of international students to the Ph.D. course through Savitribai Phule Pune University, for which the information of the college is highlighted on the college website.

#### **5.1.10 What types of support services are available for**

- \* overseas students
- \* physically challenged / differently-abled students

- \* **SC/ST, OBC and economically weaker sections**
- \* **students participating in various competitions/conferences in India and abroad**
- \* **health centre, health insurance etc.**
- \* **skill development (spoken English, computer literacy, etc.)**
- \* **performance enhancement for slow learners.**
- \* **exposure of students to other institutions of higher learning/ corporates/business houses, etc.**
- \* **publication of student magazines, newsletters.**

**Table 5.7: Specific support services/facilities available for students**

<b>Category of support</b>	<b>Support services/ Facilities available</b>
Overseas students	At present there are no overseas students.
Physically challenged/ differently-abled students	The college has a provision for separate toilets, wheel chairs, provides chair during practical work, writer at the time of examination and extra time during exams to the severely physically challenged students/ differently-abled students.
SC/ST, OBC and economically weaker sections	Government guidelines are followed in supporting SC/ST/OBC/economically weaker students, GOI scholarship, EBC concession, economically weaker students are permitted to pay fees in installments.
Students participating in various competitions/conferences in India and abroad	Financial support and leave consideration is given to students who participate in conferences and competitions.
Health centre, health insurance etc.	The Pad. Dr. Vithalrao Vikhe Patil Foundation has its own 600 bedded hospital for taking care of medical needs of students. Yearly medical checkup is also carried out. Students avail free medical facility. Amartya Shiksha Yojna policy and student accident insurance policy is available to the students for a period of 4 years.
Organizing coaching classes for competitive exams	Experts are invited to conduct seminars on competitive entrance exams like GPAT, TOFEL and IELTS for students. The in-house faculty also separately guides students for competitive exams.
Skill development (spoken English, computer literacy, etc.)	The students are taught spoken English as a part of their curriculum through subjects like Communication Soft Skill Development (CSSD) and Computer Fundamentals. Experts are invited to deliver seminar on skill development.
Support for “slow learners”	Remedial and tutorial classes, assignments, counseling and individual attention are provided to the slow learners.
Exposure of students to other	The college regularly conducts industrial

institutions of higher learning/ corporate/business house, etc.	visits for students. Students also undergo internship training and industrial project work. Students are encouraged to participate in conferences conducted at other colleges. Experts of other institutes are also invited to our college and students interact with these experts of other institute/industry on the current trends at their end.
Publication of student magazines, newsletters	Alumni association of the college publishes an Alumni News Bulletin, college magazine "Pharma Glimpse" is also been published.

**5.1.11 Does the institution provides guidance and/or conduct coaching classes for students appearing for competitive examinations (such as USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS)? If yes, what is the outcome?**

Yes, the college provides guidance for students appearing for GPAT examinations by arranging the guest lecture of the experts and our faculty also guides the students and conduct sessions. Also GPAT qualifiers are called upon to share their experience and knowledge.

**Table 5.8: Details of students qualified GPAT**

Result statistics	2011-12	2012-13	2013-14	2014-15
Total strength of class	67	72	57	66
No. of qualified students	02	06	03	12

**5.1.12 Mention the policies of the institution for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

- \* **additional academic support and academic flexibility in examinations**
- \* **special dietary requirements, sports uniform and materials**
- \* **any other (specify)**
- **Additional academic support and academic flexibility in examinations:**  
The college has developed a sports and cultural policy to promote students to participate in sports events. The students participating in sports and cultural events are allowed relaxation from attending classes provided they fulfill the minimum university required attendance norms. The faculty also provides them special academic support to such students.
- **Special dietary requirements, sports uniform and materials:**  
College provides high quality sports material to avoid accidental injuries during day-to-day sports schedule. Students are counseled to change their dietary habits to build their muscle tone, flexibility and enthusiasm. They are encouraged to change their life style with meditation and yoga to increase concentration and stamina.
- **Any other (specify) :**  
The expenses incurred during participation in sports and cultural events outside the campus are reimbursed by college.

**5.1.13 Does the institution have an institutionalized mechanism for student placement? What are the services provided to help students identify job opportunities, prepare themselves for interviews, and develop entrepreneurship skills?**

Yes, the college has a separate dedicated training and placement cell. The training and placement cell organizes a campus placement drive by inviting various pharma industries for in campus recruitment.

The placement cell maintains the resumes of outgoing students for campus interviews. They invite various eminent professionals from industry for seminars, guest lectures, conferences who guide students regarding soft skill development and technical know-how.

Students are informed time to time about various job openings, walk in interviews in public and private sectors and displaying information on the college notice board which enables the student to prepare themselves for interviews well in advance.

**5.1.14 How does the institution provide an enriched academic ambience for advanced learners?**

Yes, the college provides an enriched academic ambience for advanced learners through various facilities like books, e-journals, extending library timings, extending laboratory timings, providing internet services, arranging industrial tour, arranging seminars of industrial experts.

Students are involved in the innovative research project competition like Avishkar to satisfy their needs and to boost their talent and self-esteem. They are also encouraged to participate for poster presentation/oral presentation competitions held outside the campus and to participate in the national level conference like Indian Pharmaceutical Congress (IPC).

**5.1.15 What percentage of students drop-out annually? Has any study been conducted to ascertain the reasons and take remedial measures?**

**Table 5.9: Percentage of students drop-out annually for last four years**

Academic year	Total no. of students admitted (B. Pharm./M. Pharm.)	No. of dropout students	Dropout percentage
2010-11	259 + 46 = 305	21	6.8
2011-12	271 + 69 = 340	16	4.7
2012-13	272 + 63 = 335	22	6.5
2013-14	265 + 66 = 331	29	8.7

The average percentage of students dropping out is 6-8 % annually. Frequent tests are conducted to improve their performance. The reasons and remedial measures taken are as follows:

- Late admission due to prior admission in some other course. For these students lectures and practical's are conducted separately and also notes are provided to make them comfortable with the current syllabus.
- Due to family financial problems. For this the students are counseled by class teachers and mentors about their financial problems. They are given installments to pay the fees of college and for hostel. By providing essential documents to the students to avail educational loans from banks.
- Marriage before completion of course, specially girl students, in such cases



mentors and class teachers continuously counsel these students regarding their attendance, internal exams and other academic related activities.

- Faculty members support students who lose a subject or year and counseled for continuity.
- Besides regular classes, the faculty members provide additional help to understand the difficult subjects by remedial teaching and allow him/her to give repeat tests.

**5.1.16 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

**List of Companies visited to campus:**

- Concept Pharma, Aurangabad.
- Omni Active Health Sciences, Pune.
- Tata Consultancy Services, Mumbai.
- Amigos Pharmaceuticals Pvt. Ltd.

**Table 5.10: Students placed in last four years**

Year	2013-2014	2012-2013	2011-2012	2010-2011
No. of students	18	19	26	24

**List of Employers:**

- Wockhardt Ltd. Aurangabad.
- Indoco Pharma Ltd, Aurangabad.
- Murlikrishna Pharma, Ranjangaon.
- Mylan Lab., Aurangabad.
- FDC Ltd. Aurangabad.
- Saket Surgicals, Supa, dist-Ahmednagar.
- Merk Bioscience, Goa.
- Glowderma, Ahmednagar.
- Abbott Pharma, Goa and H.P
- Indian Drug, Ahmednagar.
- Medplus Pharma Pvt Ltd, Pune.
- Sai Pharma, Bhosari, Pune.
- Emcure Pharma, Pune.
- Lupin Research Park, Pune.
- Centaur Pharma, Pune.
- Synatse Lab, Pvt, Ltd Pune.
- Serum Institute, Pune.
- Cipla, Kurkumbh, Daund.
- TCS, Mumbai.
- Cognizant, Mumbai.
- Accutest, Mumbai
- Midas care Ltd, Aurangabad.
- IPCA Lab, Mumbai.
- Vardhaman Pharmaceuticals, Mumbai.
- Redcross Pvt. Ltd., Aurangabad.
- Micro lab, Goa.
- Baxter Pharma, Ltd, Aurangabad.
- Neon Pharmaceutical, Ahmednagar.
- Ajanta Pharma, Paithan, Aurangabad.
- Themis Lab, Mumbai.
- Bombay Drug house.

**5.1.17 Does the institution have a registered Alumni Association? If yes, what are its activities and contributions to the development of the institution?**

Yes, the college has a registered Alumni Association. The registration number is MAH/377/2009/AHMEDNAGAR-F-12330 ANR.

The alumni are employed in India and abroad. They focus on current corporate demands/opportunities available for the students by sharing their experiences. They provide platform for placement of our students.

Alumni meet is conducted regularly after every three years. The information of the alumni collected during the meet by getting his/her current details. Our alumni are invited as resource person, chairpersons, paper presenters in the national conferences, seminars, and workshops organized in the college.

The alumni employed in different sector of pharmaceutical industry and academics share their knowledge with student and faculty; which helps for institutional, academic and infrastructure development and facilitate industrial visits. GPAT qualified alumni share their knowledge for the betterment of GPAT aspirants. They also provide gift samples of active pharmaceutical ingredients, polymers and testing facility to postgraduate research study and assist to arrange industrial visit for students.

#### 5.1.18 List a few prominent alumni of the institution.

**Table 5.11: List of prominent alumni**

Name	Year of Passing	Designation
<b>B. Pharm.</b>		
Mr. Mirajkar Sunil Anantro	1998	Group leader, Accutest Research Lab, Thane
Mr. Sher Praveen Makhanlal	1998	3Bs research group, University of Minho, Braga, Portugal
Mr. Maskare Datta Tanaji	1998	Manager Technical, Cipla Ltd, Mumbai
Ms. Shahapure Pradnya Nandkumar	1998	Group leader, R & D, Ranbaxy Lab Ltd., Delhi
Dr. Mane Avinash Ramkisan	1999	Senior Research Scientist, Sun Pharmaceuticals Ltd, Mumbai
Mr. Shah Sameer Dilipkumar	1999	Director, Medico healthcare, Ahmedabad
Mr. Sonje Gajanan Ramesh	2000	General Manager, Kusum Healthcare India Ltd, Alwar, Rajasthan
Mr. Dongare Ketan Sadashiv	2000	Premier Research Group, Wheeling, Illinois, Chicago, USA
Mr. Assudani Ravindra Rameshlal	2000	Pharmacist, Rite Aid Pharmacy, California, USA
Mr. Avhad Rohan Shahadeo	2001	Program Manager, Piramal Helth Care Ltd. Mumbai
Ms. Sawant Jyotsana Ramesh	2001	Marketing Mentor, Precia Pharma, Mumbai
Mr. Khandwe Prashant Manohar	2002	HR Manager, Cipla, Patalganga, Panvel, Mumbai
Mr. Afsar Shaikh Musa	2002	Project Manager, Cipla, Mumbai
Dr. Bade Pratap Dasrath	2002	Senior Scientist, Biocon Ltd., Bangalore
Mr. Rane Nilesh Chandrakant	2003	Executive- DRA [ANDA] at Lupin Ltd., Mumbai
Mr. Bule Mahesh	2003	Senior Bioprocess Engineer, Institute of Chemical Technology,

		Salt Lake city, Utah, USA
Mr. Thorat Deepak Dadasaheb	2004	Executive, Regulatory Affairs, Macloids Pharma Ltd., Mumbai.
Ms. Katariya Ashwini Anil	2004	Executive technology transfer, Centaur Pharmaceuticals Pvt. Ltd., Hijewadi, Pune
Mr. Khairnar Akshay Umakant	2005	Senior Research Scientist, Watson Pharmaceuticals, Andheri (E), Mumbai
Mr. Lokhande Parag Janardhan	2005	Research Scientist, Oncology – Innovative Research division, Thane
Mr. Thorawe Rajesh Raghunath	2006	Senior Scientist, R & D, Glenmark, Mumbai
Mr. Markali Vikrant Sureshrao	2006	Executive CQA, Sun Pharma, Baroda, Gujarat
Mr. Deshpande Chinmay Gajanan	2007	Research Scientist, Rodeiceland, USA
Ms. Sali Monali Sharad	2007	Patent Engineer, Legalforce, Nagpur
Mr. Vaidya kumar Ambadas	2008	Technical Assistant, NARI, Pune
Mr. Sonawane Chetan Shivaji	2008	Senior Process Associate, TCS, Mumbai
Mr. Aher Nilesh Fulaji	2009	Safety Processing expert, Cognizant Technology Solutions, Mumbai
Mr. Jagtap Yogesh Mukund	2009	Executive, Intellectual Property Management Group, Lupin, Pune
Mr. Kulkarni Rutvij Ravindra	2010	Clinical Records Manager, at Syntel, Pune
Mr. Pawar Rohit Ashokrao	2010	Assistant Manager, Alkem Laboratories Ltd., Thane
Mr. Deepak Singh Omprakash	2011	Senior Research Associate, Wockhardt Research Center, Aurangabad
<b>M. Pharm.</b>		
Mr. Jadhav Ganesh Dnyaneshwar	2010	Senior Executive, Wockhardt Research Center, Aurangabad
Mr. Hadawale Sanket Dnyaneshwar	2011	Senior officer, Mylan labs, Aurangabad
Ms. Bhatiyani Ankita Kulpeep	2012	Research scientist, Lupin, Pune
Mr. Tapkir Mahesh Ramdas	2012	Data analyst, TCS, Mumbai
Mr. Babar Kiran Bhaskar	2013	Officer QA, Ceron Pharma, Bhoisar, Mumbai
Mr. Wagh Ashish Sopan	2014	Officer QA, Emcure Pharmaceuticals, Pune

**5.1.19 In what ways does the institution respond to alumni requirements?**

As alumni are an integral part of our college, we provide each and every help to our alumni as and when required. Alumni meet is conducted after every three years. We are in contact with the alumni through the social sites like facebook, e-mails and also telephonically. During the alumni meet there is face to face interaction between the alumni and present student and staff member of the college.

The placement cell conveys the information regarding placement to our alumna either by telephonically and by sending e-mails to them. Due to healthy atmosphere of our college, many of our undergraduate alumni have taken admission to postgraduate and Ph.D. programmes.

Our alumni are invited for conducting seminars, guest lectures and as a resource person in conferences organized by the college. Alumni working in different sectors of the pharmaceutical industry send information regarding job vacancy at their organization.

**5.1.20 Does the institution have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

Yes, the college has a student grievance redressal cell. The grievance redressal cell is established in order to deal with individual grievance related to students.

**Table 5.12: Constitution of grievance redressal cell**

Sr. no.	Name of the member	Designation	Mobile no.
1.	Dr. P. Y. Pawar	Principal and Chairman	8554990219
2.	Dr. R. L. Sawant	Member	9850150735
3.	Prof. Mrs. M. K. Tarkase	Member Secretary	9011560913

Grievances are reported to mentors/class teachers first and then to the grievance redressal cell.

**Table 5.13: Grievance reported and redressed**

Sr. no.	Grievance reported	Grievance redressed
1.	Alteration in bus timing during internal/ external exam Schedule for hostel students	The time of bus was adjusted as per the examination schedule for hostel students
2.	Transport facility for students residing outside the campus	Proper follow up is taken regarding a time and frequency of the bus with the concern authorities
3.	Request for extension of library timings and also to keep open on holidays during exam period	Library timings were extended and also library is kept open on holidays during examination period
4.	Permission to get extra books on library identity card during exam period	Extra books are provided on Library identity card
5.	Permission for extension of time for research work	Time is extended for research work wherever required
6.	Request for improvement examination	Improvement sessional exams are conducted as per requirement

7.	Permission for paying fees in installments	Allowed to pay fees in installments
8.	Request for xerox facility	Xerox facility made available in college premises

**5.1.21 Does the institution promote a gender-sensitive environment by (i) conducting gender related programs (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.**

Yes, separate guidance and counseling center for girl students is provided. College has established a special cell guided by principal. Female teachers are the members of this committee. This committee takes care of all the issues related to girl students.

**Table 5.14: Sexual harassment control committee**

Sr. no.	Name of the member	Designation
1.	Dr. P. Y. Pawar	Principal and Chairman
2.	Prof. Mrs. N. S. Pawar	Assistant Professor
3.	Prof. Mrs. M. K. Tarkase	Assistant Professor
4.	Mrs. S. A. Virole	Assistant Librarian
5.	Miss Ashvini Divate	Student Representative

**5.1.22 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

Yes, the anti-ragging committee has been constituted in the college. As per the guidelines of Hon. Supreme Court, UGC, AICTE, PCI and University, anti-ragging committee and anti-ragging squad has also been constituted and till date not a single case of ragging has been reported.

A display board is placed in the college premises which highlights the punishment offered if found guilty in the menace of ragging.

**Table 5.15: Anti-ragging committee**

Sr. no.	Name of the member	Designation
1.	Prof. K. N. Tarkase	Chairman
2.	Prof. A.W. Ambekar	Member
3.	Prof. H. J. Pagar	Member
4.	Prof. Mrs. N. S. Pawar	Member

**Table 5.16: Anti- ragging squad**

Sr. no.	Name of the member	Designation
1.	Prof. B. V. Bhagat	Coordinator
2.	Prof. A. K. Nangare	Member
3.	Prof. G. R. Godge	Member
4.	Prof V. V. Nimbalkar	Member
5.	Prof. M. A. Raskar	Member
6.	Prof. Ms. J. B. Wadekar	Member
7.	Prof. Mrs. R. S. Joshi	Member

**5.1.23 How does the institution elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

**Table 5.17: Cooperation of stakeholders**

Sr. no.	Stakeholder	Strategies
1.	Student	<p>Feedbacks from students are valued in all academic and exam related issues.</p> <p>Suggestions are implemented to make improvements in teaching and learning methods to achieve entire development of students.</p>
2.	Parents	<p>Provide cooperation and help in various extra-curricular activities organized by the college.</p> <p>Feedback of parents are also invited in various programme organized by the college.</p> <p>Staff–student-parent meet is organized in the college regularly.</p>
3.	Employer/ Management	<p>Management arranges the training programme for faculty members.</p> <p>Organize workshops, conferences, seminars and guest lectures for faculty and students for overall progress of the college. Spiritual lectures and personality development programmes are arranged by the college.</p>
4.	Faculty	<p>Faculty are playing very important role in overall development programme.</p> <p>Faculty provides necessary assistance and guidance for designing the syllabus, course objectives and its assessment as well as programme outcomes.</p> <p>They participate actively in all academic, non-academic, curricular and extra-curricular activities.</p>
5.	Alumni	<p>Alumni are also one of the important stakeholders of an organization. They provide placement facility for juniors in various sectors of corporate world.</p> <p>They help to arrange industrial visit for the students to gain actual industrial knowledge and skills. They provide gift samples of active pharmaceutical ingredients and polymers for postgraduate students for their research work.</p> <p>They give active contribution in career counseling and guest lectures for various competitive exams like GPAT, TOFEL and NIPER. They participate very enthusiastically in workshops, seminars and conferences arranged by the college.</p>

**5.1.24 How does the institution ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

The female students are encouraged to participate equally in intra-college sports competitions as well as cultural events. Special sports events are organized only for female students like indoor games which includes carrom,



chess and badminton. Competitions like mehendi, rangoli, art gallery, fancy dress, saree day are also organized for women students. In cultural events there is ample participation of girls in dance, songs as well as dramas.

**Table 5.18: Details of inter-institutional sports events**

Sr. no.	Type of event		Name of student	Prize
1.	Badminton	Single	Ms. Monika Pawar Ms. Pratima Bargaje	Winner Runner up
		Doubles	Ms. Pratima Bargaje and Ms. Farhin Sayyad Ms. Pooja Alli and Ms. Ashvini Divate	Winner Runner up
		Mixed Double	Ms. Pratima Bargaje and Mr. Vaibhav Wagh Ms. Pooja Alli and Mr. Akshay Gund	Winner Runner up
2.	Chess		Ms. Kanchan Pawar Ms. Trupti Khandagale	Winner Runner up
3.	Carrom	Single	Ms. Akshaya Pawar Ms. Bharti Shinde	Winner Runner up
		Doubles	Ms. Pradnya Rokade and Ms. Bharti Shinde Ms. Ashvini Divate and Ms. Akshaya Pawar	Winner Runner up
		Mixed Double	Ms. Trupti Khandagale and Mr. Khandhave Sushant Ms. Ashvini Divate and Mr. Sachin Darkunde	Winner Runner up

**Table 5.19: Details of inter-institutional cultural events**

Sr. no.	Type of event	Name of student	Prize
1.	Solo dance	Ms. Anik Udawant Ms. Kanchan Pawar Ms. Geetanjali Kakade	First Consolation
2.	Group dance	Ms. Ashvini Divate Ms. Pradnya Rokade Ms. Priyanka Sawant Ms. Pooja Alli Ms. Priyanka Jamdhade Mr. Ganesh Barkade	First
		Mr. Debaje Shubham Mr. Nikhil Kolate Mr. Ravindra Dhawale Mr. Raut Hrushikesh Mr. Chandrshekar Dhaygude Mr. Amol Palwe Mr. Tanaji Gawade Mr. Anil Dhaygude	Second

3.	Singing	Mr. Avinash Tupe (First) Ms. Bharti Shinde (Second) Ms. Rupali Handal (Third)	First Second Third
4.	Anchor	Ms. Hitakshi Makasare Ms. Kale Madhurima	Best anchor

**5.1.25 Does the institution enhance the student learning experience by providing for rotation from the teaching hospital to the community and district hospital during the internship period?**

Not applicable.

**5.1.26 Does the institution have immunization policy for its students and staff?**

No, as such not any immunization policy has been provided by the college.

**5.1.27 Does the institution give thrust on students growth in terms of:**

- \* **Physical development,**
- \* **Emotional control**
- \* **Social dimension and**
- \* **Spiritual growth.**

**Physical development:**

Sports events are organized and necessary support is provided. The college conducts and organizes various extracurricular activities. The necessary facilities as well as financial support are provided. Students are encouraged to participate in sports competitions like Namdar Chashak and Pharmacy cup. Students are refreshed by organizing various indoor and outdoor sports and cultural programmes.

**Emotional control:**

Faculty members interact with the students to solve academic and non-academic related issues. Psychologists are invited in the college to interact with students, who conduct seminar and test to measure the emotional intelligence. Mentors and class teachers provide personal attention to the students. Academic counseling and personal counseling meetings are conducted periodically for academic and emotional support to the students. Staff-student-parent meets are also organized regularly.

**Social dimension:**

Students are associated with the social NGO's like Snehalaya and Bal-sudhar gruha to owe their duties towards the society. Other socialistic activities like blood donation camp and environment day are organized in college which improves the social interaction of the students.

**Spiritual growth:**

Students celebrate teachers day and world pharmacists day. Ganesh festival and Datta Jayanti are also celebrated in the campus, even Satyanarayan mahapuja is also performed which develops religious faith. National days like Republic and Independence are also been celebrated with great enthusiasm.

## 5.2 Student Progression

**5.2.1 What is the student strength of the institution for the current academic year? Analyze the Program-wise data and provide the trends (UG to PG, PG to further studies) for the last four years.**

The student strength for the current academic year is 337.

**Table 5.20: Strength for current academic year 2014-15**

Course	Strength
B. Pharm.	254
M. Pharm. (Pharmaceutical Chemistry)	12
M. Pharm. (Quality Assurance Techniques)	29
M. Pharm. (Pharmacology)	05
M. Pharm. (Pharmaceutics)	30
Ph.D.	07

**Table 5.21: Number of undergraduate students taken admission in postgraduate programme**

Academic year	No. of students
2013-14	26
2012-13	23
2011-12	33
2010-11	09

**Table 5.22: Number of postgraduate students taken admission in Ph.D. programme**

Academic year	No. of students
2013-14	02
2012-13	00
2011-12	00
2010-11	00

### 5.2.2 What is the number and percentage of students who appeared/qualified in examinations for Central / State services, Defense, Civil Services, etc.?

After graduation some students opt for post-graduation studies and rest of them either join pharmaceutical industry or academic or start their own business. Few students have inclination towards central/state services, defense, and civil services.

**Table 5.23: The students qualified in central/state/civil services**

Sr. no.	Name	Year of passing	Designation and organization
1.	Mr. Rupesh Surana	2001	Tehasildar, Maharashtra Government, Akola
2.	Mr. Sachin Kedar	2003	Development officer, LIC, Ahmednagar
3.	Mr. Amol Kandekar	2004	Drug Inspector, Central Drugs Standard Control Organization HQ, Food and Drug Administration Bhawan, New Delhi
4.	Mr. Javed Shaikh	2005	Drug Inspector, Food and Drug

			Administration
5.	Mr. Santosh Mulay	2005	Drug Inspector, Food and Drug Administration
6.	Mr. Madhav Nimase	2005	Drug Inspector, Food and Drug Administration
7.	Mr. Popat Thorat	2006	Drug Inspector, FDA, Delhi
8.	Mr. Vaidya Kumar	2008	National AIDS Research Institute, Pune
9.	Mr. Sandip Chaudhary	2010	Pharmacists, Indian Railways

**5.2.3 Provide category-wise details regarding the number of post graduate dissertations, Ph.D. and D.Sc. theses submitted/ accepted/ rejected in the last four years.**

**Table 5.24: Details of postgraduate dissertations submitted in last four years**

Year	Programme specialization	Submitted	Rejected
2010-11	Pharmaceutical Chemistry	10	00
	Quality Assurance Techniques	--	00
	Pharmacology	--	00
2011-12	Pharmaceutical Chemistry	18	00
	Quality Assurance Techniques	17	00
	Pharmacology	--	00
2012-13	Pharmaceutical Chemistry	16	00
	Quality Assurance Techniques	18	00
	Pharmacology	--	00
2013-14	Pharmaceutical Chemistry	10	00
	Quality Assurance Techniques	18	00
	Pharmacology	01	00

**5.2.4 What is the percentage of graduates under AYUSH programs employed in the following?**

- \* AYUSH departments/Hospitals,
- \* Multinational companies,
- \* Health clubs,
- \* Spas,
- \* Yoga wellness centers,
- \* Yoga studios,
- \* Health clubs,
- \* Own Yoga cubes/studios?

Not applicable.

### 5.3 Student Participation and Activities

#### 5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the program calendar and provide details of student's participation.

The range of sports available for the students is badminton, cricket, football, volley ball, table tennis, carrom and chess.

**Table 5.25: Students participation in sports in last four years**

Academic year	Cricket	Volley ball	Table tennis	Chess	Carrom	Badminton
2010-2011	60	60	15	17	32	37
2011-2012	57	35	14	16	30	35
2012-2013	54	31	11	17	31	36
2013-2014	53	30	10	18	32	37

**Table 5.26: Major extracurricular activities conducted where all the students participated in academic year 2014-15**

Activity	Date
World Environment Day	5 <sup>th</sup> June 2014
Independence Day	15 <sup>th</sup> August 2014
Fresher's Day	19 <sup>th</sup> August 2014
Blood Donation Camp	4 <sup>th</sup> September 2014
Teachers Day	5 <sup>th</sup> September 2014
Ganesh Festival	9 <sup>th</sup> September 2014
World Pharmacists Day	25 <sup>th</sup> September 2014
Inter Class Tournament	15-20 <sup>th</sup> November 2014
University sponsored QIP seminar	21 and 22 <sup>nd</sup> November 2014
Annual Day/Pharma Utsav	22 <sup>nd</sup> November 2014
World AIDS Day	1 <sup>st</sup> December 2014
Republic Day	26 <sup>th</sup> January 2015
World Cancer Day	4 <sup>th</sup> February 2015

Students actively participates in cultural events like classical group dance, fusion dance, group and solo song, debate, quiz, antakshari, various days like traditional day, mismatch day, cap and tie day, chocolate day, saree day, art gallery and rangoli competition.

**Table 5.27: Programme calendar for various activities for academic year 2014-15**

Sr. no.	Month	Event
1.	June	World Environment Day
2.	August	Independence Day Freshers Party
3.	September	Blood Donation Camp Teachers Day Ganesh Festival World Pharmacists Day
4.	October	Industrial Visit

5.	November	Inter Class Tournament University Sponsored QIP Seminar Annual Day/Pharma Utsav
6.	December	World AIDS Day
7.	January	Republic Day
8.	February	World Cancer Day

**5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.**

**Table 5.28: Students achievements in co-curricular, extracurricular and cultural activities during the last four years**

Year	Activity	Level	No. of students participated	Achievement
2011-12	Avishkar	Zonal	14	04
	Avishkar	University	04	01
	Avishkar	State	01	00
	Indian Pharmaceutical Congress (IPC)	National	02	00
	MET poster presentation competition	State	03	2 <sup>nd</sup> prize
2012-13	Avishkar	Zonal	18	10
	Avishkar	University	10	00
	Avishkar	State	00	00
	Indian Pharmaceutical Congress (IPC)	National	02	00
	Rajnibahi V. Patel award for innovative thesis	National	01	In top five thesis
2013-14	Avishkar	Zonal	14	06
	Avishkar	University	06	02
	Avishkar	State	02	00
	VLife research publication	National	03	1 <sup>st</sup> prize
	best poster and oral presentation	National	01	1 <sup>st</sup> prize
2014-15	Avishkar	Zonal	41	12
	Avishkar	University	12	00
	Avishkar	State	00	00
	Rajnibahi V. Patel award for innovative thesis	National	01	In top five thesis

**5.3.3 Does the institution provide incentives for students who participate in national / regional levels in sports and cultural events?**

Yes, financial assistance is provided for travel and registration charges for the events.



**5.3.4 How does the institution involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.**

The college encourages students to contribute their art, creative writings and photography to the wall magazines and art gallery.

College conducts various competitions to inspire students. Students are inspired to participate in conferences and technical fest to present their research and innovative thinking. The students are involved in various committee constituted for organizing conference, workshop, guest lectures at college. Students are encouraged to participate in innovative research project competition “Avishkar” organized by university at zonal, university and state level.

The college motivates students to publish magazine in which articles submitted by students are published which provides an opportunity for students to improve their writing skills and publishing articles. The entire activity of collecting articles, newsletters, designing the cover page is done by students under the guidance of staff members. Students design posters, brochure and invitations for various programmes hosted by the college.

The students are also involved in organizing health related programmes like blood donation camp, cancer day and AIDS day.

**5.3.5 Does the institution have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

Yes, the college has constituted student council as per Savitribai Phule Pune University guidelines.

**Table 5.29: Constitution of student council**

Sr. no.	Post	Particulars
1.	Chairman	Principal
2.	Lecturer In-charge	Appointed by the chairman
3.	General Secretary	By nomination
4.	Class representative	By nomination
5.	Cultural representative	By nomination
6.	Sports representative	By nomination
7.	Ladies representative	By nomination

**Activity of student cell**

- Give suggestions and active contribution in academic, administrative and extension activity.
- Involvement of students in all extracurricular activities like blood donation camp, sports, orientation, annual function and social activity.
- Discussing various problems of students in consultation with class teacher, mentor and other staff members.
- Putting up the grievances of students in front of grievance redressal cell.
- Organizing various co-curricular, extracurricular and cultural activities throughout the year.

These activities are funded by the college.

**5.3.6 Give details of various academic and administrative bodies that have student representatives in them. Also provide details of their activities.**

Yes, we have various academic and administrative bodies that have student representatives in them.

- 1. Anti-ragging committee:** The role of anti-ragging committee is to absolutely prohibit ragging within or outside the college campus. To prevent the occurrence of ragging by following anti-ragging measures in the college.
- 2. Alumni committee:** The role of the alumni committee is to maintain record of alumni database and make correspondence with alumni with respect to their present position in employment, designation, residence and also communicate with alumni about college activities. Organize alumni meet and publish alumni bulletin.
- 3. Cultural committee:** To conduct cultural activities in college during the Ganesh festival and annual day.
- 4. Sports committee:** To conduct sports activities in college during several occasions like Ganesh festival and sports week of annual day.
- 5. Hostel committee:** To maintain discipline in the hostel and to report various issues related with hostel and mess to concern rector and class teachers.
- 6. Medicinal Plants committee:** Staff members of department of pharmacognosy along with student representatives carry out plantation of medicinal plants and maintenance of medicinal plant garden within the campus.
- 7. Sexual harassment control committee:** To take care of girl students in hostel and college campus, to report various problems of girl students to concern rector, mentor and class teacher.
- 8. Museum committee:** It is involved in preparation and maintenance of museum in college campus.
- 9. Organizing committee for seminars and conferences:** The seminar and conferences are organized yearly in college. Various committees are constituted like registration, transport, stage decoration, discipline, welcome, food etc. Students along with staff members are the members of these committees.

Students participate in various committees and modulate the college functioning for excellence.

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

#### **6.1.1 State the vision and the mission of the institution.**

##### **Vision**

Serving society ethically through creating competent pharmacrat.

##### **Mission**

To impart indispensable technical know-how to the students to make them competent professionals that can contribute for the upliftment of pharmacy profession and to improve public health.

#### **6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?**

Yes.

- Our commitment to quality education and experimental learning ensures that our students develop the abilities for critical thinking and evaluation of issues; they are trained to translate concepts and theoretical knowledge into real time situations.
- College provides academic ambience through inspiration, fosters enthusiasm and motivation so as to realize challenging and rewarding career pathways to students.
- Majority of students in the college come from rural and economically weaker sections of society, the college is committed to serve the requirements of society and seeks to make education accessible to all.
- Besides these, our students are moulded to be socially aware and become responsible good human being, to make effective contributions towards social transformation and nation building.

#### **6.1.3 How is the leadership involved in**

- \* **developing E-Governance strategies for the institution?**
- \* **ensuring the organization's management system development, implementation and continuous improvement?**
- \* **interacting with its stakeholders?**
- \* **reinforcing a culture of excellence?**
- \* **identifying organizational needs and striving to fulfill them?**
- **Developing E-Governance strategies for the institution:** The institution has adopted E-governance strategy as a fundamental tool for management and administration. The institution has tied-up with Google for college Email IDs for each faculty, student and staff with the domain name @vikhepharmacynagar.com. All communications such as office notes, circulars, notices and university examination schedule etc are communicated through this system. Inter and intra departmental communication of heads of the department with faculty is conducted through the email system.
- **Ensuring the organization's management system development, implementation and continuous improvement:** Yes, there is continuous

involvement of the top leadership and sessions for development. College ensures the development, implementation and continuous improvement in management system and review of existing management practices. Regular meetings with Governing Body and Local Managing Committee are held to frame new policies and revise existing ones in case of need. In addition meeting with heads and faculty members are scheduled at regular intervals.

- **Interacting with its stakeholders:** College regularly conducts students-parents-teachers meeting, alumni meet to facilitate the interaction. During interaction of the stakeholders of institute, the members of management are also present for the concerned meeting. The management members and principal are easily approachable to the stakeholders. Feedback from all stakeholders is sought and as per their suggestions in feedback, changes/improvements are made wherever required.
- **Reinforcing a culture of excellence:** Yes, there is no compromise in quality. The management motivates to fetch research grants, upgrade qualification and depute faculty as well as students to attend conferences and workshops for updates in technical knowledge. College takes initiative in organizing staff development programme, conferences and workshops to emphasize culture of excellence.
- **Identifying organizational needs and striving to fulfill them:** The organizational needs such as infrastructure, faculty, equipments, books etc. are identified by the heads of departments and faculty and which then notified to principal and management. The Management strives to fulfill the same by taking immediate decisions. All the staff members play an active role in providing information to the authority and implement decision taken in order to fulfill the needs.

**6.1.4 Were any of the top leadership positions of the institution vacant for more than a year? If so, state the reasons.**

No, there were no top leadership positions of the institution vacant for more than a year in the college.

**6.1.5 Does the institution ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?**

Yes, the college ensures that all positions in its various statutory bodies are filled and meetings conducted regularly.

**6.1.6 Does the institution promote a culture of participative management? If yes, indicate the levels of participative management.**

Yes, the college has been promoting and welcoming all suggestions from the members of various committees constituted for smooth and efficient administration.

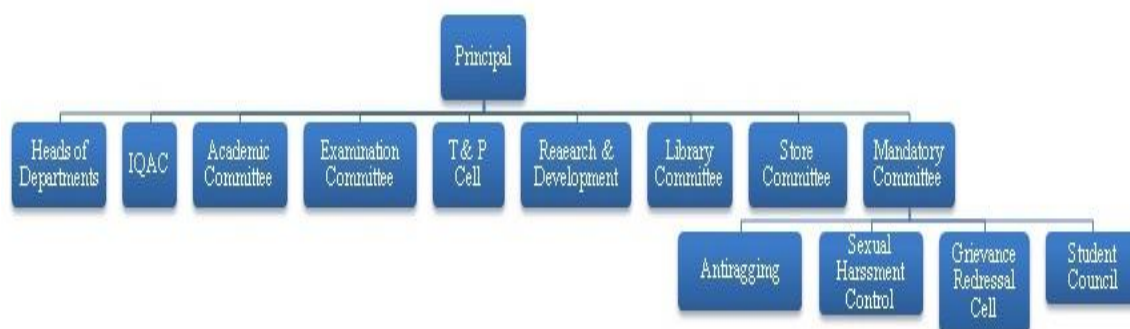


Fig. 6.1: Committees constituted for various activities

**6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges / constituent units and the support and encouragement given to them to become autonomous.**

The college delegates authority and provides operational autonomy to the Heads of Department and work towards decentralized governance system.

**6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?**

Not applicable.

**6.1.9 How does the institution groom leadership at various levels? Give details.**

All the departments are headed by well-experienced and qualified faculty. The college grooms leadership at various levels by allocation of responsibilities like forming various committees for a particular activity. The appointed committee in-charge assign specific role to selected members making decentralized decisions.

**6.1.10 Has the institution evolved a knowledge management strategy which encompasses the following aspects such as access to:**

- \* Information Technology,
- \* National Knowledge Network (NKN),
- \* Data Bank,
- \* Other open access resources along with effective intranet facilities with unrestricted access to learners.

Yes, the college has evolved a knowledge management strategy which encompasses the following aspects such as access to internet broadband speed with 2Mbps Tata lease line connection, upgradation of operating systems and computers, adequate back-up of all official documents are kept on regular basis and maintained properly. The institution provides access to open access resources like e-journals from Elsevier and Bentham publisher along with various hard bound journals.

**6.1.11 How are the following values reflected in the functioning of the institution?**

- \* Contributing to National development
- \* Fostering global competencies among students

- \* **Inculcating a sound value system among students**
- \* **Promoting use of technology**
- \* **Quest for excellence**

The students are mainly from rural background and the quality of education provided at our college grooms them to become a competent professional.

The faculty teaches latest technological updates in their respective areas both theoretically and practically along with its industrial application, which makes the students globally competent enough to meet future challenges. Students are also given hands on knowledge of various sophisticated instruments and equipments. To bring out competitiveness, the students are encouraged to participate in research and scientific competition.

The college reinforces sound value systems through nurturing organizational values and ethical professional conduct and to develop a positive personality by inculcating discipline, emotional intelligence and social views in students.

The college has adopted use of latest technology through providing internet and projection system to the class rooms for better academic use along with free computer and internet access to all faculty members and students with library automization.

By implementing efficient teaching and learning our college has succeeded in producing university rankers time and again. A significant number of students of our college have qualified various competitive exams like GPAT, NIPER etc. also students have presented their work in various scientific research competition. The faculty is constantly trained to deliver their best to the students.

**6.1.12 Has the institution been indicted / given any adverse reports by National Regulatory bodies? If so, provide details.**

No, the college has not been indicted / given any adverse reports by National Regulatory bodies.

**6.1.13 What are the projected budgetary provisions towards teaching, health care services, research, faculty development, etc.?**

**Table 6.1: Projected budgetary provision**

Sr. no.	Particulars	Amount (₹ in Lakh)
1.	Salary	222.73
2.	Admni and establishment	38.75
3.	Education and student	26.73
4.	Property related and interest	34.19
5.	Capital expenses	70.06
	<b>Total</b>	<b>392.46</b>

**6.2 Strategy Development and Deployment:**

**6.2.1 Does the institution have a perspective plan for development? If yes, what aspects of the following are considered in the development of policies and strategies?**

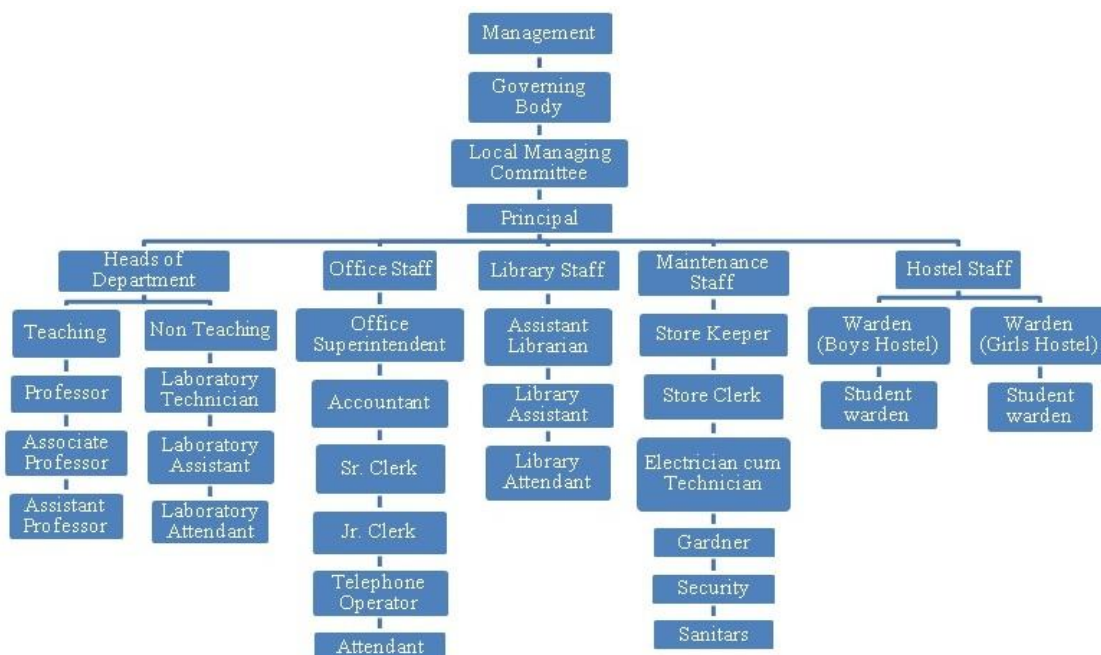
Yes, the institute has a perspective plan for development. Following aspects are considered in the plan;

- To establish Industry-Institute partnership cell.

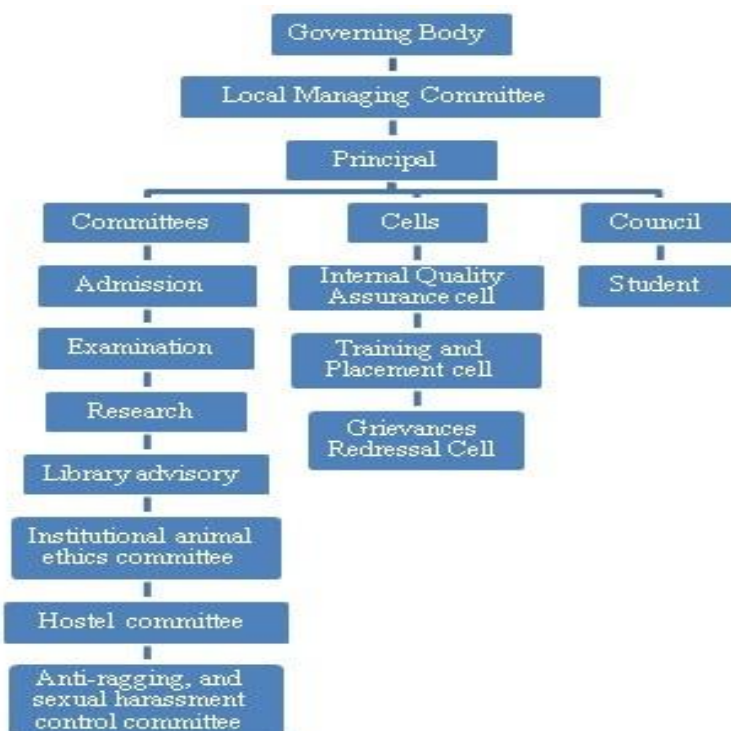


- To have research collaboration and MoU with Pharmaceutical industry.
- To start Ph.D. programme in other specialization.
- To encourage faculty for patentable research.
- To tie-up with foreign universities/agencies for research, faculty and student exchange programme.

**6.2.2 Describe the institution's internal organizational structure (preferably through an organogram) and decision making processes and their effectiveness.**



**Fig. 6.2: Internal organization structure**



**Fig. 6.3: Decision making process**

### Decision making process

- a. As per the direction by universities, statutory bodies and state government the management instruct principal to prepare policy plan.
- b. The principal in coordination with HOD's and various committees prepare a policy plan which is subsequently approved by Governing Body and Local Managing Committee with necessary correction and suggestion.
- c. Once approved the principal execute the policy plan through HOD's and various committee.
- d. The HODs implement these policies through faculties and staff.
- e. The improvements, restitution, results pertaining to implementation of the above decisions are conveyed back to principal during interaction of HOD's and faculties from time to time.
- f. Principal conveys the effectiveness of policy to the management accordingly.
- g. Management after getting feedback from the stakeholders decides on the future action plan.

### 6.2.3 Does the institution conduct regular meetings of its various Authorities and Statutory bodies? Provide details.

Yes, the college conducts regular meetings of its various authorities and statutory bodies twice a year.

**Table 6.2: Constitution of governing body**

Sr. no.	Name of the member/s	Designation	Nominated by
1.	Hon. Namdar Shri Radhakrishna Vikhe Patil	Chairman	Trust
2.	Hon. Shri Vasantrao Shahurao Kapare	Member	Trust
3.	Hon. Dr. Ashok Vikhe Patil	Member	Trust
4.	Hon. Shri. Nandkumar Bhausahab Zaware	Member	Trust
5.	Lt. Gen. B. Sadananda (Retd.)	Member	Trust
6.	Dr. A.K. Shukla	Member	Nominee of the A.I.C.T.E Regional Office (Ex.Officio)
7.	Nomination is awaited	Member	An Industrialist/ Technologist/ Educationalist from the Region Nominated by WRC, AICTE
8.	Nomination is awaited	Member	Nominee of the Affiliating body/University of Pune
9.	Dr. S.K. Mahajan Directorate of Technical Education, M.S., Mumbai-01	Member	Nominee of the State Govt. D.T.E. (Ex.Officio)
10.	Nomination is awaited	Member	An Industrialist /Technologist/ Educationalist from the Region Nominated by State Govt.
11.	Dr. P.Y. Pawar	Member Secretary	Principal of the College/ Institution

**Table No.6.3: Constitution of local managing committee**

Sr. no.	Name	Designation
1.	Shri. Radhakrishna Vikhe Patil	Chairman
2.	Dr. Ashok Vikhe Patil	Member
3.	Shri. Nandkumar Zaware	Member
4.	Dr. Sujay Radhakrishna Vikhe Patil	Member
5.	Shri. B. F. Shirude	Member
6.	Lt. Gen Dr. B. Sadananda (Retd.)	Member
7.	Dr. R. L. Sawant	Member Teacher Representative
8.	Dr. S. Z. Chemate	Member Teacher Representative
9.	Prof. Ms. U. K. Daware	Member Teacher Representative
10.	Shri. R. B. Mhaske	Member Non-teaching Representative
11.	Dr. P. Y. Pawar	Principal

Following issues are discussed in the meeting of authorities and statutory bodies.

- Budgetary allocation of fund for various activities.
- Recruitment of Human Resources.
- Introduction of new courses.
- Purchase for new instrument/equipment.
- Infrastructural development.

**6.2.4 Does the institution have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?**

Yes, the college has a formal policy to ensure quality.

**Policy:** To impart quality education through providing standard infrastructural facilities and efficient faculty.

Basic infrastructure has been provided as per the norms of All India Council for Technical Education and Pharmacy Council of India, New Delhi. The additional facilities are provided by considering the needs of current professional scenario. Qualified faculties are recruited through proper selection procedure. Care is taken for their continuous up gradation in professional skills and technical knowledge. IQAC has been constituted.

**6.2.5 Does the institution encourage its academic departments to function independently and autonomously and how does it ensure accountability?**

The powers to take decision are delegated to every department. The head of the department is responsible for departmental activity. Inter and intradepartmental meetings are conducted regularly and as per the need necessary actions are taken in coordination with the head of the institute.

**6.2.6 During the last four years, have there been any instances of court cases filed by and / or against the institution? What were the critical issues and verdicts of the courts on these issues?**

No, there is no any instance of a court case filed by/against the institute till date.

**6.2.7 How does the institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?**

Yes, the college has a grievance redressal cell. This cell is established in order to deal with grievance related to students.

**Table 6.4: Constitution of grievance redressal cell**

Sr. no.	Name	Designation	Mobile no.
1.	Prof. Dr. P. Y. Pawar	Principal and Chairman	8554990219
2.	Prof. Dr. R. L. Sawant	Member	9850150735
3.	Prof. Mrs. M. K. Tarkase	Member secretary	9011560913

Grievances are reported first to mentors/class teachers and then to the grievance cell.

**Table 6.5: Grievance reported and redressed**

Sr. no.	Grievance reported	Grievance redressed
1.	Alteration in bus timing during internal/ external exam schedule for hostel students.	The time of bus was adjusted as per the examination schedule for hostel students.
2.	Transport facility for students residing outside the campus.	Proper follow up was taken regarding a time and frequency of the bus with the concern authorities.
3.	Request for extension of library timings and also to keep open on holidays during examination period.	Library timings were extended and also library is kept open on holidays during examination period.
4.	Permission to get extra books on library identity card during examination period.	Extra books are provided on library identity card.
5.	Permission for extension of time for research work.	Time is extended for research work wherever required.
6.	Request for improvement sessional examination.	Improvement sessional examinations are conducted as per requirement.
7.	Permission for paying fees in installments to economically weaker student.	Allowed to pay fees in installments by economically weaker students.
8.	Request for xerox facility within college premises.	Xerox facility is made available in college premises.

**6.2.8 Does the institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

Yes, we have a mechanism for analyzing the student's feedback on institutional performance.

Suggestions obtained in accordance with the institutional performance and actions taken are listed below:

**Table 6.6: Suggestions and action taken on institutional performance**

Sr. no.	Suggestion	Action taken
1.	Computer centre need to be well furnished.	Well furnished computer centre is developed.
2.	Internet speed needs to be increased.	High speed internet facility is provided.
3.	Regular maintenance and cleanliness of washrooms	Dedicated sweeper is appointed.
4.	Reading room is not comfortable especially in summer.	Reading room is provided with Air Conditioner system.

**6.2.9 Does the institution conduct performance audit of the various departments?**

Every faculty of the college is audited for his performance through head of department using appraisal system. The performance of head of department is evaluated through head of the institute.

**6.2.10 What mechanisms have been evolved by the institution to identify the developmental needs of its affiliated / constituent institutions?**

The developmental needs are identified by the department head and forwarded to head of the institute. Head of the institute in coordination with the management make them fulfill as per the priorities.

**6.2.11 Does the institution and hospital have their own updated websites? If so, is the information regarding faculty and their areas of specialization, days of availability, timings, and consultation charges available on the website?**

Yes, the institute has its own updated website [www.vikhepharmacynagar.com](http://www.vikhepharmacynagar.com). It gives the entire information of the academics, campus life, placement, and alumni, contact etc.

**6.2.12 What are the feedback mechanisms and documentations to evaluate the outcomes of these exercises?**

Feedback is collected from the student, parents, alumni, employers and properly scrutinized and appropriate actions are taken wherever applicable for development.

**6.3 Faculty Empowerment Strategies**

**6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff? What is the impact of Continuing Professional Development Programs in enhancing the competencies of the university faculty?**

The college encourages upgradation of personal qualification and also motivates the faculty to undertake collaborative research with different institutes and research organization. Teaching staff participate in faculty development programme, workshops, orientation programs, seminars and conferences. Non-teaching/ laboratory and administrative staff are also

encouraged to undergo need based training related to their areas of requirements.

The college encourages faculties to become life member of various professional bodies. They are allowed duty leave to participate in various faculty development programme, training and workshops, orientation programs, seminars and conferences. The institution has also organized a number of conferences and workshops, which in themselves, enable faculty to gain insight into the specialty through the deliberation of resource persons and delegates.

The above efforts have improved the technical knowledge of the faculty. Some of the faculty have completed their Ph.D. and have upgraded their educational qualification. Due to above efforts our faculty has published significant number of research papers in various national and international journals, filed patents and written books.

### **6.3.2 What is the outcome of the review of various appraisal methods used by the institution? List the important decisions.**

The institution has a well established method of appraisal as under:

- Self appraisal: The faculty expresses his/her own performance, key result areas, faculty initiatives, percentage of result in their respective subject.
- Appraisal by HOD/Principal on performance of the faculty with relevance to personal qualities, demonstrated performance and class room/ laboratory information.
- Feedback from students is also utilized for the appraisal.

The increments and promotions are considered on basis of appraisal. Based on appraisal methods some of the important decisions taken are to conduct soft skill development for the faculty, to encourage the faculty to participate in staff development programme, conferences and to undertake collaborative research and interdisciplinary research.

### **6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.**

The management has put in place a number of welfare measures for faculty and staff, these include:

- Provident fund.
- Employee insurance scheme.
- Free/Subsidized health care.
- Maternity leave.
- All statutory and non statutory welfare schemes
- Residential facility within the campus.
- Transportation for outstation staff.

All the staff members have been benefitted from either of the above mentioned schemes.

### **6.3.4 What are the measures taken by the institution for attracting and retaining eminent faculty?**

Faculty is paid salary as per the prescribed norms of state government, university and other statutory bodies. Faculty is provided autonomy in the work they undertake. The staff and faculty are provided updated teaching aids

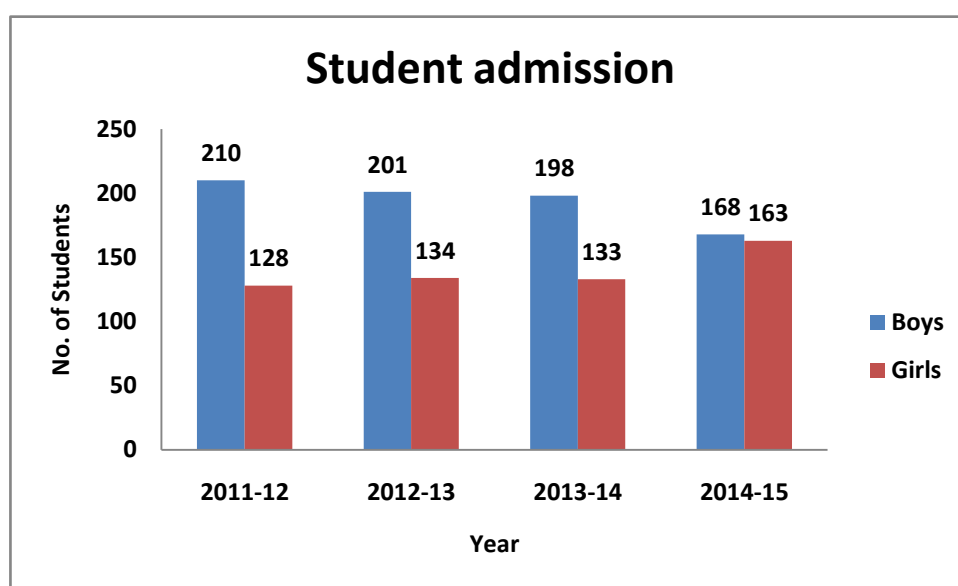


to make them aware that the education they provide must be student centric. To upgrade the knowledge and qualification for faculty various faculty development schemes are organized by the institute. The faculty are encouraged to undertake scientific research projects by providing funds as well as given financial assistance to participate in national and international conferences.

Proper infrastructure and logistic support, appropriate promotions and monetary compensations are the important measures taken by college for attracting and retaining faculty. Due to above features of the institute many senior faculties have been working with the institute since its inception.

**6.3.5 Has the institution conducted a gender audit during the last four years? If yes, mention a few salient findings.**

Yes, the college has data of students according to their gender.



**Fig. 6.4: Gender audit for last four years**

From the above gender audit of last four years it has been observed that there is increased inclination of girl students towards pharmacy profession.

**6.3.6 Does the institution conduct any gender sensitization programs for its faculty?**

The college conducts many gender sensitization programs by organizing debate competition on the social causes related to save girl child, cultural activities are conducted which passes on a message related to women and girl empowerment.

**6.3.7 How does the institution train its support staff in better communication skills with patients?**

Being a pharmacy college there is no direct involvement of support staff in communication with the patients.

**6.3.8 Whether the research interests of teaching faculty are displayed in the respective departments?**

Yes, every department in the college has its own profile comprising of objectives, faculty profile, research area and publications. The research interests of teaching faculty and the work done by them are displayed prominently on the walls of the respective labs in the departments. Also a centralized data of research publications and books published is maintained by the institute.

**6.3.9 Do faculty members mentor junior faculty and students?**

Yes, the senior members of the faculty are actively involved in mentoring junior faculty on issues related to student management, teaching techniques, examination methodologies, laboratory training, research and practical related aspects. Besides this the senior faculty also guide junior faculty in various administrative roles assigned to them for smooth functioning. For mentoring and counseling of the students each faculty is allotted with 20 students.

**6.3.10 Does the institution offer incentives for faculty empowerment?**

Yes, as per policy the college encourages faculty empowerment by deputing the faculty for attending seminars, workshops, conference and staff development programmes. The faculty is granted duty leave and is reimbursed with the registration fees and traveling expenses. Monetary compensations and promotions are given to the faculty for their empowerment.

**6.4 Financial Management and Resource Mobilization**

**6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**

Effective and efficient use of financial resources is done by proper financial budget prepared by head of the institute in consultation with heads of department. During departmental meeting, appropriate utilization of budget allocated for the respective head is discussed. Budget utilization details are prepared and justified for under and over utilization to the management.

**6.4.2 Does the institution have a mechanism for internal and external audit? Give details.**

Yes, the college has its mechanism for audit. Internal audit of the college is done half yearly, while external audit is done after completion of financial year by the agency appointed by the management.

**6.4.3 Are the institution's accounts audited regularly? Have there been any audit objections, if so, how were they addressed?**

Yes, our college account is audited yearly by internal and external auditors. Audit objections pointed out in internal audit system are communicated to head of the institute in writing by the management which are then complied and rectified accordingly before financial audit meeting.

**6.4.4 Provide the audited statement of accounts with details of expenses for academic, research and administrative activities of the last four years.**

Annexure - attached herewith the copies of statement of last four years.

**6.4.5 Narrate the efforts taken by the institution for resource mobilization.**

As our college is self-financed organization the only resource of revenue is fees collected from the students, however we received research grants from various central and state agencies, development grants and earn and learn scheme from university.

**6.4.6 Is there any provision for the institution to create a corpus fund? If yes, give details.**

Yes, the corpus fund is created at the trust level and development fund is created at the college level through development fees. In addition bank finance is made available to the college for both long term and short term requirement.

**6.4.7 What are the free / subsidized services provided to the patients in the hospital?**

Not applicable.

**6.4.8 Does the institutions receive fund from philanthropic organizations / individuals towards patient care? If yes, give details.**

Not applicable.

**6.4.9 Do patients from other states / abroad come for treatment, reflecting the unique quality health care provided by the institution?**

Not applicable.

**6.5 Internal Quality Assurance System**

**6.5.1 Does the institution conduct regular academic and administrative audits? If yes, give details.**

Yes, the college conducts academic as well as administrative audits at specified intervals. The general points considered for the academic audit are:

- Admissions for undergraduate and postgraduate courses.
- Status of faculty teaching load.
- Syllabus covered
- Result analysis of various examinations conducted.
- Research audit, protocol approval, papers published and grants received.

The general points considered for the administrative audit includes:

- Accounts audit
- Stock verification of consumables and non-consumables.
- Library audit

The suggestions and recommendations are reviewed for its proper implementation.

**6.5.2 Based on the recommendations of the Academic Audit, what specific follow up measures have been taken by the institution to improve its academic and administrative performance?**

Following measures are adopted to improve academic and administrative performance:

- Relevant allotment of work load to the faculty taking into consideration their administrative roles.
- Instructions to faculty to complete syllabus in time.

- To identify any particular subject/s in which the students have not performed well and efforts taken to improve the result.
- Judicious practices to reduce the level of consumption of consumables.
- Identification of missing and replacement of lost/ broken equipments.
- Identification and replacement of missing/lost books.

**6.5.3 Is there a central unit within the institution to review the teaching-learning process in an ongoing manner? Give details of its structure, methodologies of operations and outcome?**

Yes, academic committee reviews the teaching and learning process of the college.

**Structure:** The academic committee comprises of principal as chairman, coordinator and one faculty from each department as a member. The coordinator informs and motivates all faculty members to implement proper procedure which would bring about positive improvement in academic and administrative functioning of the college. Committee collects information from all the departments regarding progress of academic and extracurricular activities.

Academic committee monitors the academic functions which include:

- Reviewing of teaching plans
- Status of syllabus covered
- Review of teaching methods
- Review of study material/ notes
- Student feedback
- Readdress academic related problems
- Regular monitoring of academic schedule
- Timings of classes and practical

The auditing teaching-learning process in an ongoing manner ensures smooth conduct of academic schedule, improvement in teaching methods, improved academic excellence, increased number of qualifying students in competitive exams and increased employable output.

**6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

College has recently formed IQAC on 16/09/2014. The IQAC has contributed in developing quality consciousness in the entire institution. It has brought about positive changes in functioning of the college by setting benchmarks for quality. Every aspect of academic as well as administrative role of college has been impacted. There has been a positive shift in the management strategy and thinking process. Members of the management, faculty, non-teaching staff and students have realized the importance of maintaining quality in their area of work. Till now one meeting has been held and the agenda of meeting was up gradation of faculty and infrastructural facilities as well as e-journals for students.

**6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the institution for implementation?**

In regards to the decisions of IQAC placed before the statutory authorities of the institution for implementation are e-journals subscription has been renewed and workshop on fluency in English for faculty has been scheduled.

**6.5.6 Are external members represented in the IQAC? If so, mention the significant contribution made by such members.**

Yes, the IQAC contains external members.

**Table 6.7: Constitution of internal quality assurance cell (IQAC)**

<b>Sr. no.</b>	<b>Name</b>	<b>Designation</b>	<b>Post</b>
<b>1.</b>	Dr. P. Y. Pawar	Principal	Chairperson
<b>2.</b>	Dr. R. L. Sawant	Professor and Head	Coordinator
<b>3.</b>	Dr. P. M. Gaikwad	Professor and Head	Member
<b>4.</b>	Dr. Abhijit Diwate	Dy. Director Medical College	Member
<b>5.</b>	Dr. S. Z. Chemate	Professor and Head	Member
<b>6.</b>	Prof. A. P. Deshpande	Associate Professor	Member
<b>7.</b>	Prof. K. N. Tarkase	Assistant Professor	Member
<b>8.</b>	Prof. Mrs. N.S. Pawar	Assistant Professor	Member
<b>9.</b>	Shri. C. M. Kothari	Proprietor, Anand Pharma.	Member
<b>10.</b>	Shri. S. A. Gaikwad	Sales Executive, Bharat Serum and Vaccines Ltd.	Member

**6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

No, the IQAC has not yet conducted such a study.

**6.5.8 Are there effective mechanisms to conduct regular clinical audit of the teaching hospital? Give details.**

Not applicable.

**6.5.9 Has the institution or hospital been accredited by any other national / international body?**

No, the college is not accredited by any national/international body.

**6.5.10 Does the hospital have institutional and individual insurance schemes to cover indemnity claims?**

Not applicable.

## CRITERIA VII: INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

#### 7.1.1 Does the institution conduct a Green Audit of its campus and facilities?

Our college has a lush green eco-friendly campus with trees and well spread gardens all over. The college has framed out a green policy for its campus and has design guidelines for development of eco-friendly campus. We have formed a club of students and faculty member to sensitize student community on Environment Protection and Sustainability named as “Green Clump” which conduct environment awareness programme like tree plantation, car pool, bicycle-friendly policies etc from time to time to make campus eco-friendly. The college has well maintained green pockets and established an arboretum of medicinal plants of the most common and important species of medicinal and aromatic plants which are being used in day-to-day primary health care. The college is yet to conduct an official green audit through an external agency. However, attempts are being made to maintain the greeneries within campus and to preserve the old trees of considerable value that generate fresh air, an action which is highly recommendable for maintaining healthy atmosphere and ecology of an college, engaged in shaping the minds of the youth with great potentials.

#### 7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- \* Energy conservation
- \* Use of renewable energy
- \* Water harvesting
- \* Solar panels
- \* Efforts for carbon neutrality
- \* Plantation - Botanical or Medicinal significance
- \* Bio-hazardous waste management
- \* E-waste management
- \* Effluent treatment and recycling plant
- \* Recognition / certification for environment friendliness
- \* Any other (specify)

##### **Energy conservation:**

- All light fitting selected are energy efficient tube fitting to reduce energy consumption.
- The college building has been design and constructed such that prioritizes energy efficiency and sustainability, which ensures adequate normal lightning and ventilation to reduce the energy requirement.
- The college has made special efforts in devising alternative methods to save the energy consumption. In pharmaceuticals and pharmaceutical chemistry practical microwave ovens are used for the synthesis of products instead of gas and high voltage electric heater. This device has eased to minimize the time and quantum of energy for product synthesis.
- We have power-saving features on our computers. There is a rule that each electronic item should be unplugged when it is not in use because appliances still draw current, even when switched off. It is instructed to all



the staff members and students to switch off the light and fans whenever class will be over.

- Students and staff are sensitized about energy crisis and the need to save energy so as to avoid future problems.

**Uses of renewable energy:**

Electronic goods which are purchased are with ISI marking and five star energy ratings. The hostels located in the campus are equipped with solar heater and the street light within the campus is enlightened with solar energy supported lighting installation.

**Water harvesting:**

- The college is aware of the scarcity of water and judicious use of water.
- As college building is in vicinity of hilly areas therefore 4 check dams are constructed for increasing percolation to increase ground water level. Storm water gutters of 3250 meters are constructed to drain the rainwater into check dams which is used for watering the garden maintained by the college during summer - a time of water scarcity.
- A huge amount of water is lost every year due to unattended faucet leaks therefore our maintenance department always stands on their toes to fix the leak.

**Solar panels:**

In order to achieve climate neutrality or deep cuts in green house gas (GHG) emissions and the rapid infrastructural development for the college campus shall lead to higher pressure on the energy demand of the foundation. With most of the existing educational infrastructure of foundation being solely dependent on conventional energy, the need of the hour is to shift to more conventional sources of energy like solar power. To meet this ever rising energy requirement, college has therefore started working to spread awareness and provide customized solar power solutions. Till date 12 solar lamps (2x18 watt) are installed on the street within campus. Solar water heater is installed in girls and boys hostels for hot water supply. By being more energy efficient, college can help to prevent greenhouse gas emissions and improve the students' learning environment.

**Advantages:**

- Reduction in electricity bills
- Govt. Subsidy
- No extra space required
- Power saving for other applications

**Efforts for carbon neutrality:**

The college educates the student and makes them aware of the Carbon Credits, Carbon Neutrality; its benefits. As a part of curriculum viz. Environmental Science in the second year (Sem-III) programmes. Projects/assignments are also given to students based on topics like India's carbon credit policy, earnings from carbon credit, carbon neutral affordable housing, e-waste etc.

Cutting down standing trees on the college ground has been strictly prohibited so as to prevent carbon emission which can be regarded as a first step towards the achievements of carbon neutrality. Also in this regard we have been encouraging tree plantation in our campus by conducting plantation drives on various occasions like world environment day and birth anniversary of our founder.

The following initiatives are taken for carbon neutrality:

- The burning of biological plant waste is totally prohibited to prevent biofuel air pollution and to keep the atmosphere carbon and smoke free.
- The employees are counseled and motivated to reduce single occupancy of car/vehicles.
- Construction of energy efficient building has been done.
- AC systems are installed only at selective places to minimize their run time.
- Solar and wind energy generated within campus from explored destinations is used.
- In house incinerator is used for disposal of non-hazardous dry waste.
- Recycling of wastepaper is promoted for regular administrative use also we encouraged two-sided printing options.
- The campus is almost declared as “Plastic free-zone” to discontinue the haphazard use of plastic material.
- We at our college made some administrative changes compulsory viz. communication through email, double side printing, journal and attendance record book size was kept at its minimum to reduce paper usage.

**Plantation: Botanical or medicinal significance:**

- The college has spacious medicinal plant garden with around 20 trees and 24 herbs of various medicinally important plants like Bibba, Shivan, Ashoka, Eucalyptus, *Aloe vera*, *Terminalia arjuna*, *Asparagus racemosus*, *Withania somnifera*, papaiya, lemon, lemon grass etc.
- The college encourages the students for plantation programmes not only in the college campus but also out of the campus which in turn develops an interest, awareness and responsibility towards our environment and its protection. Moreover attitude of our students is further strengthened due to subjects like Environmental Science in foundation course as essential part of their curriculum and this has created greater impacts in their minds.
- The student volunteers plant trees within the campus from time to time in order to maintain biodiversity and facilities such as carbon sequestration. The garden of the campus is maintained by paid staff under the supervision of the College authority.

**Bio-Hazardous waste management:**

- College is not producing any kind of bio-hazardous waste materials.
- Parent hospital has MoU with bioclean system Pvt. Ltd. which is an authorized agency by Maharashtra Pollution Control Board for collection of bio-hazardous waste.
- In-house incinerator is used for disposal of non hazardous dry waste. Crockery and broken glass-ware of any sort is considered hazardous waste and are disposed appropriately.
- Awareness has been created among the students to minimize the use of plastics in their day to day life.
- Mere enforcement of Laws is not sufficient to create eco-friendly atmosphere but the intrinsic eternal vigilance and the practical hands-on efforts are more important. Focusing on the foresaid, Savitribai Phule Pune University has introduced Environment Sciences as a subject for the students. It could help to inculcate awareness among the students about global environmental issues and concerns. The students realize that men should progress with nature and not against nature.

**E-waste management:**

We have planned an alternative approach to reduce the volume of e-waste generation in future by adopting the following procedures.

- Buy back system which includes giving systems back to the company from where they are purchased.
- Donate old workable electronic equipments to other organizations.
- Reuse these equipments after slight modifications to the original functioning equipment.
- Refilling of cartridges is done outside the campus.
- Empty toners, cartridges, outdated computers and electronic items are sold as scrap in order to ensure their safe recycling.

**Effluent treatment and recycling plant:**

College has installed four stage sewage treatment plant of M/S MKW Bio-systems, Pune (150 M<sup>3</sup>/Day) which utilizes advanced technology based on extended aeration principle. It comprises of an integrated system which includes bar screen, bar screen chamber, receiving tank, sewage pump, chemical storage tank, diffused aeration tank, holding tank, filter pump, carbon filter, and sludge drying bed. During primary treatment, wastewater is screened for the removal of solids, grit and primary sedimentation. The filter water is chlorinated for disinfection. Part of the wastewater is subjected to secondary treatment standards, which utilize special strains of aerobic bacteria (bacteria that need oxygen to grow) to break down the organic waste left after primary treatment. Secondary treatment process removes up to 95 percent of suspended solids in the waste stream and is significantly more effective than primary treatment in removing biologic pathogens from sewage. These plants are used for recycling the sewage water for gardening and cultivation via applications through drip irrigation system.

**Water recycling:**

Our increased water consumption for various activities is putting a burden on our water resources. We at our college address this by doing what it takes to generate 'good water'. Our water treatment plants come with treatment processes that remove existing contaminants in the water, or reduce the concentration of such contaminants so as to make the water deem fit for its desired end-use, which includes use as irrigating campus lawns and gardens.

**7.1.3 How does the college ensure that robust infection control and radiation safety measures are effectively implemented on campus?**

- Policies and practices are outlined for the robust infection control. As part and parcel of our curriculum we did not come across radiation sources.
- The regular cleaning and pest control operations are conducted by the maintenance team. Moreover daily dry and wet sweeping and cleaning operations using disinfectant solution.
- The biodegradable waste produced during pharmacology practicals and various animal studies are segregated and collected by bioclean system Pvt. Ltd.

**7.1.4. Has the college has been audited / accredited by any other agency such as NABL, NABH etc?**

The college has not been audited / accredited by NABL or NABH.

## **7.2 Innovations**

### **7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.**

We at our college believe in cultivating global competencies attitude among students and faculties which enable them to sculpt a comfortable position in life or employment for themselves in this fast changing technical education scenario.

Our work on innovation also helped us to learn about the various roles that are needed inside an organization to designate responsibility and/or accountability for exploring, doing and sustaining innovation. It helped us to see all aspects of our work, from teaching and learning to the research encouragement, as opportunity spaces for generating innovation; and we found many examples to demonstrate their positive outcomes.

To enhance innovation, it is critical that we advance our education systems through:

1. Education innovation
2. Research innovation
3. Governance innovation

#### **1. Education Innovation:**

##### **a. Teaching wisdom**

Teaching wisdom helps our students to become fully realized citizens during their time with us, helping them to develop “soundness of action” and “good judgment” is a core issue which is concerned with knowledge, skill and behavior. To make the teaching more effective and efficient faculty deliver their lectures using audio visual aids equipped with animations, faculty encourages students for interactive sessions to clear their doubts related to topics being taught, students are given home assignments/ tutorials and field work. The B. Pharm. students are assigned research project as a part of their curriculum under the guidance of faculty members. The M. Pharm. students are allotted to respective guides to deliver seminar on syllabus based topic or recent trends in pharmaceutical technology. The students have to present in front of his/her colleagues and faculty members. Journal club is regular activity for PG students. Apart from their thesis work students are assigned with minor projects to enhance their research aptitude. The faculty does suggest extensive literature to complete the tutorial. Faculty members give critical comment on topic and improvement of his/her presentation and knowledge.

##### **b. Value-added education**

To make the students competent professionals in the health care system, college is very aware about the importance of ethical and moral values in their life and aimed for the holistic development of the students. The college always takes effort to inculcate moral and ethical behavior in the form of extracurricular and social activities to make the students a responsible citizen and globally competent professional. The guest lectures and motivational speeches by the invited guests are arranged every year on various occasions, which inspire students to be conscious of values in human life. Besides this the students are motivated to get involved in various contributory programs like

charity, blood donation, social awareness about cancer, AIDS etc. The college arranges every year environmental field trip, educational tour, theme based drama competitions for annual function to enhance the student's consciousness in values of human life.

## **2. Research innovations:**

We believe in catering administration actions to enhance basic research and stimulate industrial innovation which will ultimately benefits the society.

### **a. Research ambiance**

To promote excellence in research the college has provided enviable research facilities to students and faculty for carrying out frontline research in different fields of pharmacy. The faculty and students are consistently encouraged and motivated to carry out research of industrial relevance. In library, the students have been allocated a separate area as reading room where they can carry their own books to study. The college has designed fully equipped industrial type of aseptic room, machine room and sophisticated instruments laboratory for production at small scale of industrial standards. Besides this various faculty members have grabbed research awards and research grants from various funding agencies like AICTE, Board of College and University Development (BCUD), Savitribai Phule Pune University, Pune.

### **b. Development of research culture in UG students**

The college always encourages students and faculty to participate in various innovative research competitions like Avishkar, various national and international conferences and seminars etc., a unique practice of seeding research aptitudes in under graduate students. The students of under graduate course are encouraged to work with postgraduate students where they can carry out research activities with postgraduate students and share their ideas. The undergraduate students seek guidance from postgraduate students and faculties. The college subscribes 93 international e-journals of Elsevier and Bentham publisher so as to promote an easier access for furthering the research interest of the students and staff.

### **c. Application oriented research**

The research projects of our students are well appreciated and awarded at various national and university level competitions which were monitored by our experienced faculties along with industrial experts. The college accommodates interested students to work in industries. At the postgraduate level, students are encouraged to look beyond their area of specialization to broaden their horizons through open electives.

### **d. Interdepartmental interaction for enhancement of research**

Improved interdepartmental interaction yields improved product development performance. In particular, interaction within the college between different functional departments has a positive impact and a major role for new product development and product management, and for better functioning of the college as a whole. Alone interaction has been found not to have implications for new product development, but interaction is essential for collaboration. Hence, our college encourages both faculties and students to carry out inter and intra departmental research activities.

### **3. Governance innovation:**

The governance structure of college believes in delegation of various responsibilities for smooth functioning through entrustment of power and encourages individual leadership to enhance quality education and research.

#### **a. Academic mentorship to students**

The objective of this practice is to monitor, help and counsel the students in their undergraduate and post graduate tenure by the faculty as a academic guardian. In this activity a faculty shares his/her educational knowledge and professional experiences with student. The mentoring includes counseling, guidance and motivation given by faculty in terms of curriculum, co-curriculum, psychological, and personality development of the students. It was observed that students need guidance, support and personal attention with respect to registering to various academic programs and understanding the documentary needs as they are entering into the undergraduate course directly after completion of their higher schooling. The college has dedicated a separate portfolio as academic mentorship to students, portfolio in-charge co-ordinates the allotments of counseling groups to each faculty and helps in scheduling of counseling sessions for each class. The only challenge observed in this practice is, it needs extra time and planning in organizing of counseling sessions. Counseling bridges a bond between faculty and the students and students feel friendlier environment in sharing their difficulties, likes and dislikes. It has been observed that this practice has created a positive impact on overall attendance and performances of the student.

#### **b. The KYC program**

Based on the need of time, college has developed a program “Know Your Child” for parents and guardians. Under this program all the parents / guardians are informed time to time about the status of their children in form of attendance, marks and backlogs in academic performance, university exams. In continuation to this we at our college regularly call a parents meet to take an active role in their child progress, strengths, weakness such as language barrier, lack of financial resources, low educational attainment and potential opportunities.

#### **c. Staff improvement**

College staff members are encouraged to participate at various national and international conferences, workshop and staff development programs, symposia and seminars for improvement of their academic and professional skills. As a part of our academic calendar we regularly organize seminar/conference on various subjects from pharmaceutical sciences. We encourage our faculty to present and publish their research work. Our faculty members are also encouraged for pursuing their higher studies from reputed universities and this learning opportunity promotes positive self-esteem. Moreover for overall development of our faculties and their expertise we do arrange personality development sessions, English speaking courses, yoga and meditation related programs at regular intervals.



### 7.3. Best Practices

#### 7.3.1. Give details of any two best practices that have contributed to better academic and administrative functioning of the college.

##### First best practice:

##### 1. Title of the practice: Widening access to research.

##### 2. Objectives:

- To promote learning and innovation activities.
- To promote industry-college interaction through research activities.
- To inspire the faculty members, postgraduate students and research scholars.
- To escalate awareness and recognition of the faculty members and the students toward research activities.
- To generate funds for further promotion of research activities and other required facilities.
- To fetch grants to widen research activities.

##### 3. The context:

- Any leading research and education college use to inflate research-education technology, research-industry link-up as well as research-training amalgamation. The development of the best practices in research depends upon the appropriate recruitment of the most qualified and experienced faculty. The college offers B. Pharmacy, M. Pharmacy programs with specialization in Pharmaceutical Chemistry, Quality Assurance Techniques, Pharmacology, Pharmaceutics and Ph.D. program dully affiliated and recognized by Savitribai Phule Pune University.
- Research environment in the college is key factor to further strengthen the innovative approach in students as well as in faculties. Various projects viz. computer aided drug design (CADD), organic synthesis, analytical method development, bioavailability studies, formulation and development, novel drug delivery system, herbal formulations, drug design in area of cancer, infectious diseases, cardiovascular drug research, pain and inflammation, molecular level assay and enzyme assay etc.
- The college adopts innovative approaches in education and research to fulfill the emerging need of industry for development.

##### 4. The practice:

- The college has various departments like Pharmaceutical Chemistry, Pharmaceutics, Pharmacology, Pharmacognosy, where each departmental laboratory had strong research capabilities, highly qualified and well trained human resource and excellent research environment.
- Overall research up-lift was witnessed as many of our undergraduate and postgraduate students performed well in various state level and national level poster and project competitions like avishkar, innovation, MET Nashik etc. We also proud to communicate here that many of our postgraduate students have participated in R. V. Patel innovative thesis competition, Ahmedabad. Our students have participated in poster presentation competation organized by VLife

MDS Pune and national level poster presentation competition organized by college of pharmacy, Ahmednagar.

- The college has adopted various approaches to meet best practice of innovation in education and research through activities like conducting multi-disciplinary workshops, symposia and seminars, guest lecturers for advancement of knowledge and skills.
- Identify topics and projects that could be offered with innovative teaching methods and multidisciplinary approach as well Industry defined projects.
- Feedback from resource persons and prospective employers about the relevance of the program and employability of the grads.

**5. Evidence of success:**

- Research widening activities have been greatly benefiting the college. The faculty members and students are working on the novel research projects and various innovative ideas. Net fruitful outcome of this activity is research grant worth of ₹ 36 lakh for various ongoing research projects in college.
- The college has purchased most of the required instruments to execute various research projects. It has designed a well equipped sophisticated instrument laboratory, pilot plant with various instruments used for formulation and development.
- M. Pharm. thesis of our postgraduate student Ms. Supriya Ramdin (M. Pharm. Pharmaceutical Chemistry) has shortlisted in top five thesis at national level in R. V. Patel innovative thesis competition, Ahmedabad (2012-13).
- M.Pharm. thesis of our post graduate student Mr. Dnyaneshwar Hardas (M. Pharm. Pharmaceutical Chemistry) was awarded best thesis at national level in R. V. Patel innovative thesis competition, Ahmedabad (2014-15).
- Mr. Vaibhav Pawar (M. Pharm. Pharmaceutical Chemistry) was awarded the prize for best scientific poster by VLife MDS, Pune (2013-14).
- Mr. Dyneshwar Hardas (M. Pharm. Pharmaceutical Chemistry) received first prize at national level paper presentation competition organized by college of pharmacy, Ahmednagar (2013-14).
- Research Project of Mr. Pradip Bhoi (B. Pharm.) was shortlisted in top 2 projects at avishkar state level competition held at Chatrapati Shivaji University, Kolhapur (2012-13).
- Research Project of Mr. Ajit Chanale (B. Pharm.) was shortlisted in top 8 projects at Avishkar state level competition held at NMU, Jalgaon (2013-14).
- Till date a total of 286 research articles and 04 books have published by the faculty in various national and international journals. Prof. Dr. R. L. Sawant has recently filed a patent application. The faculty members are constantly encouraged to present their research work in national and international conferences and publish in high quality research journals.

**6. Problems encountered and resources required:**

- The major problem was collaboration of academics and industry for solving multidisciplinary as well industry defined projects.

- Secondly, strengthening of infrastructure and research facilities in interdisciplinary areas where the facilities can be availed from nearby areas, researchers with good research expertise are required for multidisciplinary research. Five professors with Ph.D. qualification in different departments of Pharmaceutical Chemistry, Pharmacology, Pharmaceutics and Quality Assurance are available and can increase the exposure to research in emerging areas.
- The second challenge was overcome by establishing centralized machine and sophisticated instrument room facility to be commonly used by collaborating department and try to fetch more number of research grants to facilitate and strengthen our research environment.

**Second best practice:**

**1. Title of the Practice: Teaching and learning process**

**2. Objectives:**

- To build proficiency within the students for the harsh professional contention.
- To smooth the way and encourage teaching and learning activity.
- To promote teachers academic and professional development.
- To perform students analysis and evaluation strategy.
- To achieve the fundamental aim of operation for running the programme.
- To light on the basic purpose of the programme net results (PRs), course net results (CRs) and programme educational net results (PERs).

**3. The context:**

In this context, the college has employed well qualified, highly experienced and proficient faculty. In the college, students are enrolled through centralize admission process (CAP) managed by Director of Technical Education (DTE), Maharashtra state. The college is established in 1994 and at present emerged as one of the most reputed pharmacy institute which helps us to attract excellent admissions every year. The college has expanded requisite physical facilities, maintenance and appropriate use of infrastructure, library, computer, equipments and other learning facilities to execute the programme more effectively.

**4. The practice:**

Primarily, the teaching-learning process is consisted of teacher, student, learning process and learning assessment. In the beginning of academic year teacher plans the teaching objectives, determine curriculum plans and engage teaching-learning process by planning component of syllabi and modus of teaching. The teaching-learning assessment is then bringing into existence by oral, written and practical techniques along with theory and practical records.

In the development of a new canning process, teachers make use of computers and audio-visual tools to stimulate learning. College has assigned qualified teaching faculty which is approved by University Selection Panel to commensurate the norms imposed by the University Grant Commission (UGC). Faculties prepare academic planner according to allotted academic sessions and syllabi. The day to day teaching is further note down in daily sheet and attendance register. Teachers are

capable to teach by various methods of teaching for this they may use audio-visual aids, power point presentations, projectors, computers/laptops etc. Teachers instill the habit of referring latest books available in library to update very recent knowledge of the subject. All teachers are motivated to use internet facility in downloading the updated reading articles to upgrade overall teaching-learning activity. Teachers deliver daily lecture with the chalk board method and other teaching aids viz. OHP, power point presentations etc. They do conduct remedial test in between their lectures to identify weaker students and group those students according to their ability to provide additional coaching. For monitoring of teaching-learning process, teacher conducts surprise tests, class tests, and carries out evaluation by fair means. Before practical sessions our teachers do conduct tutorial class to discuss about the theoretical aspect of practical to be conducted and later practical demonstration and execution was monitored by them.

The faculties are evaluated by principal periodically. Moreover teachers are being evaluated on the basis of teaching skills, knowledge, academic qualification, research qualification and necessary measures are taken by teachers for improving their subject understanding. Additionally, the college carries out feedback of the faculty from the students and which is studied by principal to identify the depth of teaching claimed by any faculty at actual. The principal then do interpretation, analysis and issue feedback certificate to the individual faculty along with suggestions to improve further.

#### **5. Evidence of success:**

A world movement toward mass higher education is taking place at a different rate in each country, for this reason attention should be given to teaching and learning process. This process is well recognized to boost the performance level of the college. Since quality of education and excellence of college is directly co-related with quality of output of its graduates in different spheres, therefore college is committed to take sincere efforts in this regard. The college is also known to provide quality of teaching and advanced infrastructure facilities so as to promote quality education and to produce competent pharmacist to nurture the harsh competition present in the pharmacy profession. The results of our college are always above 90% with students scoring well in competitive exams like GPAT every year. The students of our college have topped in University and received various prestigious awards in numerous research competitions like Avishkar, various national level conference, best thesis competition etc. organized by different agency.

Training and placement cell of the college assists students for industrial training and also organizes campus placement. Recently we have invited TCS Mumbai and Amigo Pharma for campus recruitments. High percentages of the students have been recruited by MNC through the campus placements arranged by T & P cell of the college. The college also has a CPCSEA approved animal house facility. Along with equipped laboratory the college also has state of art machine and instrument room with sophisticated instruments. For the overall development of students and to improve technical know-how's various guest lectures of eminent resource persons from industry and academics are arranged. Ms. Sarita Pawar (2001-2002) won the various prestigious awards viz. Gold medal,

University of Pune, Galxo Smithkline Top Girl Student award, Govind Seth Sable Memorial Award. Ms. Supriya Saptarshi (2003-2004) won the various prestigious awards viz. Gold medal, University of Pune and Govind Seth Sable Memorial Award.

**6. Problems encountered and resources required:**

There are some levels of shortcomings and weaknesses for example support of pharmaceutical industries to the college. Also the students admitted in college are from a remote rural area so lots of efforts are required to improve their English communication and writing ability.

**EVALUATIVE REPORT OF THE DEPARTMENT**

- 1. Name of the Department:** Pharmacy
- 2. Year of establishment :** 1994
- 3. Is the Department part of a college/Faculty of the university?**  
It is a part of college.
- 4. Names of programs offered (UG, PG, Pharm-D, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.):**  
UG : B. Pharm.  
PG : M. Pharm.  
Ph.D. : Pharmaceutical Chemistry
- 5. Interdisciplinary programs and departments involved:** Nil
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
- 7. Details of programs discontinued, if any, with reasons:**  
No any program is discontinued so far.
- 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
Annual : T Y and Final B. Pharm.  
Semester : F.Y. and S. Y. B. Pharm.  
Credit and gradation system : M. Pharm.
- 9. Participation of the department in the courses offered by other departments:** Nil
- 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	08	06	06
Associate Professor/Reader	04	01	01
Assistant Professor	19	19	19
Lecturer	--	--	--
Tutor / Clinical Instructor	--	--	--
Senior Resident	--	--	--

- 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of years of experience
Prof. Dr. P.Y.Pawar	M.Pharm. Ph.D.	Principal	Pharm. Chem.	20 Yrs. & 03 M.
Dr. P.M.Gaikwad	M.Pharm.	Professor	Pharmacology	20 Yrs.



	M.Phil,Ph.D.			
Dr. R.L.Sawant	M.Pharm. Ph.D.	Professor	Pharm. Chem.	16 Yrs. & 07 M.
Dr. S.Z.Chemate	M.Pharm. Ph.D.	Professor	Pharmaceutics	17 Yrs. & 07 M.
Dr. Senthilkumar C.	M.Pharm. Ph.D.	Professor	Pharm. Chem.	06 Yrs. & 09 M.
Prof. A.S. Pund	M.Sc.	Professor	Biochemistry	22 Yrs.
Prof. A.P.Deshpande	M.Pharm.	Asso. Prof.	Pharmacognosy	16 Yrs. & 06 M.
Prof. K.N.Tarkase	M.Pharm.	Astt. Prof.	Q.A.T.	16 Yrs. & 05 M.
Prof.Mrs.N.S. Pawar	M.Sc.	Astt. Prof.	Biochemistry	18 Yrs. & 08 M.
Prof.Ms.J.B.Wadekar	M.Pharm.	Astt. Prof.	Pharmacognosy	09 Yrs. & 07 M.
Prof. H.J.Pagar	M.Pharm.	Astt. Prof.	Pharmacology	09 Yrs.
Prof. V.V.Nimbalkar	M.Pharm.	Astt. Prof.	Pharmacology	08 Yrs. & 02 M.
Prof. A.K.Nangare	M.Pharm.	Astt. Prof.	Pharm. Chem.	08 Yrs. & 02 M.
Prof. M.A. Raskar	M.Pharm.	Astt. Prof.	Pharm. Chem.	07 Yrs. & 09 M.
Prof. A.W.Ambekar	M.Pharm.	Astt. Prof.	Pharmaceutics	07 Yrs. & 08 M.
Prof. G.R. Godge	M.Pharm.	Astt. Prof.	Pharmaceutics	06 Yrs. & 08 M.
Prof. Mrs. R.S. Joshi	M.Pharm.	Astt. Prof.	Pharm. Chem.	06 Yrs. & 08 M.
Prof. B.V. Bhagat	M.Pharm.	Astt. Prof.	Pharmaceutics	05 Yrs. & 06 M.
Prof. B.Y. Mane	M.Pharm.	Astt. Prof.	Pharm. Chem.	04 Yrs. & 06 M.
Prof.Mrs.M.K.Tarkase	M.Pharm.	Astt. Prof.	Pharm. Chem.	04 Yrs. & 06 M.
Prof. S.A. Hapse	M.Pharm.	Astt. Prof.	Q.A.T.	04 Yrs. & 06 M.
Prof. N.S. Mhaske	M.Pharm.	Astt. Prof.	Pharmaceutics	02 Yrs. & 03 M.
Prof. A.N. Merekar	M.Pharm.	Astt. Prof.	Pharmaceutics	01 Yrs. & 10 M.
Prof. M.D. Dokhe	M.Pharm.	Astt. Prof.	Q.A.T.	01 Yrs. & 09 M.
Prof. Mrs. S.R. Vikhe	M.Pharm.	Astt. Prof.	Pharmacognosy	06 M.
Prof. S.B. Kakad	M.Pharm.	Astt. Prof.	Q.A.T.	04 M.

Pharm. Chem.: Pharmaceutical Chemistry,  
Q.A.T.: Quality Assurance Techniques

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

There is no professor emeritus/adjunct faculty/visiting professors on our college roll but outside faculty are invited to visit the college and deliver lectures frequently.

## 13. Percentage of classes taken by temporary faculty–program-wise information

College appointed faculty on full time, regular and on permanent basis; so no temporary faculty is appointed to conduct the classes. But visiting lectures conducts few lectures related to syllabus and beyond syllabus.

## 14. Program-wise Student Teacher Ratio

Sr. no.	Course	Student - teacher ratio
1.	B. Pharm.	16:1
2.	M. Pharm.	6:1

## 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Sr. no.	Posts	No. of post sanctioned	No. of post filled	Actual no. of Staff
1.	Technical Staff	08	08	08

2.	Office Staff	09	09	09
3.	Peon Staff	16	16	16

#### 16. Research thrust areas as recognized by major funding agencies

The broad areas of consultancy services provided by the college which benefited research scholar students and staff members are:

- Organic synthesis
- Computer aided drug design (CADD)
- Drug design in area of cancer, cardio vascular system, pain, inflammation, infectitious diseases
- Enzyme assay (molecular level studies)
- Bioanalytical and bioequivalent studies
- Analytical method development
- Phytochemical studies
- Pharmacognostic studies
- Herbal formulation
- Novel drug delivery system
- Formulation- optimization and development of transdermal drug delivery system, ocular system
- Pharmacological screening

#### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

For the year 2014-2016, seven research projects worth ₹ 11.20 lakh has been sanctioned under BCUD research grant of Savitribai Phule Pune University, Pune. We have also applied to AICTE, New Delhi for various projects but till date we are not in receipt of its status.

#### University awarded minor projects for the year 2014-2016

Sr. no.	Name of staff member	Name of the project	Total grant received (₹ in lakh)
1.	Dr. S. Z. Chemate	A programmable chronotherapeutic drug delivery system for early morning surge in blood pressure	2.40
2.	Prof. A. P. Deshpande	Design and evaluation of hepatoprotective activity of polyherbal mixture in experimental animals	1.20
3.	Prof. K. N. Tarkase	Formulation, evaluation and optimization of Table-in-Tablet of outer immediate release and inner sustain release (floating tablet) using 3 <sup>2</sup> factorial design	2.40
4.	Prof. Mrs. N. S. Pawar	Determination of liver specific proteins in condition of liver cirrhosis by micellar electrokinetic chromatography	1.20
5.	Prof. Ms. J. B. Wadekar	Repurposing of cassia species for diabetic complications	1.20

6.	Prof. H. J. Pagar	Evaluation of anti-anxiety activity of <i>Andrographis paniculata</i> in experimental animals	1.60
7.	Prof. M. A. Raskar	Photofluorimetric estimation of polycyclic aromatic hydrocarbons and their derivatives from pharmaceuticals and food elements	1.20

**List of completed research projects**

Sr. No.	Title of Research	Name of Principal Investigator	Year	Grant Received (₹ in lakh)
<b>Major research project (Funding agency: RPS, AICTE, New Delhi)</b>				
1.	Design of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents	Prof. Dr. R. L. Sawant	2012-2014	16.00
<b>Minor research projects (Funding agency: BCUD, Savitribai Phule Pune University, Pune)</b>				
2.	Synthesis, characterisation and biological evaluation of some new quinoxaline derivatives	Prof. Dr. P. Y. Pawar	2009-2011	1.90
3.	Microwave mediated synthesis of Hantzsch esters analogues of potential biological interest	Prof. Dr. R. L. Sawant	2009-2011	2.00
4.	Development and evaluation of oral floating pulsatile drug delivery system based on calcium pectinate beads	Prof. Dr. S. Z. Chemate	2011-2013	2.00
5.	Design and evaluation of polyherbal formulation for the antihyperlipidemic activity	Prof. A. P. Deshpande	2011-2013	1.50
6.	Preparation and evaluation of transdermal drug delivery system of anti-hypertensive drug	Prof. K. N. Tarkase	2011-2013	2.00
7.	Quantitative analysis of immobilized metalloenzymes by atomic absorption spectroscopy	Prof. U. K. Daware	2011-2013	2.00
8.	Antiasthmatic potential of <i>Cassia auriculata</i> roots	Prof. Ms. J. B. Wadekar	2011-2013	2.00
9.	Evaluation of antiasthmatic activity of garlic in experimental animal	Prof. H. J. Pagar	2011-2013	1.50
10.	Formulation and evaluation of ethosomes for transdermal delivery of antiviral drugs	Prof. A. W. Ambekar	2011-2013	2.00
11.	Synthesis and antiinflammatory activity of benzofuran analogs of fenamates bearing oxadiazole	Prof. B. Y. Mane	2009-2011	1.50

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration b) International collaboration**

Inter-institutional collaborative work resulted in 71 research publications in reputed journals till now.

**19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

- Under AICTE Research Promotion Scheme a project worth ₹ 16.00 lakhs has been sanctioned to Prof. Dr. R. L. Sawant for the topic entitled “Design of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents.”
- Under BCUD research grant of Savitribai Phule Pune University, Pune 11 research projects were completed (**quantum of amount sanctioned in ₹ – 17.40 lakh**).
- College has organized Staff Development Program (SDP) sponsored by AICTE, New Delhi on Recent Advances in Drug Design and Discovery dated 10<sup>th</sup> -22<sup>nd</sup> Jan 2011 (**quantum of amount sanctioned in ₹ – 7 lakh**)
- Seminar conducted on Computational Chemistry in Anticancer Drug Research sponsored by AICTE, New Delhi dated 26<sup>th</sup> and 27<sup>th</sup> Dec. 2013 (**quantum of amount sanctioned in ₹ – 1 lakh**)

**20. Research facility/centre with**

- **state recognition**
- **national recognition**
- **international recognition**

The college is the first pharmacy institute in Ahmednagar district as a recognized Ph.D. research centre in Pharmaceutical Chemistry affiliated to Savitribai Phule Pune University.

**21. Special research laboratories sponsored by/created by industry or corporate bodies : Nil**

**22. Publications:**

**The details of publications by the faculty**

Name of faculty	Publications listed in Inter-national database			Citation Index (Number)	SNIP	SJR	Impact Factor	h-index
	Total	National	International					
Prof. Dr. P. Y. Pawar	31	4	27				1.08	
Prof. Dr. P. M. Gaikwad	11	01	10				1.37	
Prof. Dr. R. L. Sawant	64	3	61	226	14.98	8.10	12.45	8
Dr. S. Z. Chemate	18	--	18					
Prof. A. S. Pund	01	--	01					
Prof. A. P. Deshpande	05	01	04					
Prof. K. N. Tarkase	18	01	17					
Prof. Mrs. N. S. Pawar	05	02	03				0.32	
Prof. Ms. J. B. Wadekar	23	02	21	60	6.49	2.88	5.18	5

Prof. H. J. Pagar	05	--	05					
Prof. V. V. Nimbalkar	06	--	06		1.24	0.74		
Prof. A. K. Nangare	07	01	06					
Prof. M. A. Raskar	06	--	06					
Prof. W. A. Ambekar	04	01	03					
Prof. G. R. Godge	10	01	09					
Prof. Mrs. R. S. Joshi	16	04	12				1.6	
Prof. B. V. Bhagat	06	03	03					
Prof. M. K. Tarkase	09	01	08					
Prof. B. Y. Mane	07	01	06		1.42	0.88	0.87	
Prof. S. A. Hapse	25	09	16					
Prof. M. D. Dokhe	08	01	07					
Prof. S. B. Kakad	01	01	--					

**The details of books published by the faculty**

Sr. No.	Name of Authors	Title of book	Publisher	ISBN
1.	Ramesh Sawant and Sandip Hapse	Fundamentals of Quality Assurance Techniques	Career Publication, Nasik	978-81-88739-97-4
2.	Sandip Hapse	Analytical Method Development and Validation With Respect to ICH	LAMBERT Academic publication, Germany	978-3-659-23975-5
3.	Vikram Nimbalkar and Pandurang Gaikwad	Screening methods for Hepatoprotective agents in Experimental animals	Lambert Academic Publishing, Germany	978-3-659-44763-1
4.	Ganesh Godge and Shivanand Hiremath	A Study on Solubility Enhancement Methods for Poorly Soluble Drug	LAP Lambert Academic Publishing Deutschland/Germany	978-3-659-55306-6

**23. Details of patents and income generated**

Prof. Dr. R. L. Sawant has filed patent application **547/MUM/2015** on Feb. 20, 2015.

**24. Areas of consultancy and income generated**

The broad areas of consultancy services provided are

- Organic synthesis
- Computer aided drug design (CADD)
- Drug design in area of cancer, cardio vascular system, pain, inflammation, infectious diseases
- Enzyme assay (molecular level studies)
- Bioanalytical and bioequivalent studies
- Analytical method development
- Phytochemical and pharmacognostic studies
- Herbal formulation
- Novel drug delivery system

- Formulation - optimization and development of transdermal drug delivery system, ocular system
- Pharmacological screening.

**25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad**

Prof. Dr. Ramesh Lakshman Sawant, Professor and Head, Department of Pharm. Chemistry and PG studies.

**Invited Talks**

- **Industry**
  - ✓ “Fundamentals of Spectroscopic Techniques” at Lupin Research Park, Pune on 17<sup>th</sup> July 2014.”
- **Academia**
  - ✓ “Mass Spectroscopy and NMR” at Shivnagar Vidya Prasark Mandal’s College of Pharmacy, Malegaon – Bharamati, Dist. Pune on 30<sup>th</sup> Nov. 2012.
  - ✓ “Modern Spectroscopic Techniques in Analysis” at Shriman Sureshdada Jain College of Pharmacy, Chandwad, Dist Nashik on 14<sup>th</sup> Jan. 2012.
  - ✓ “Structural Elucidation with the help of Spectroscopic Data” at Vishal Institute of Pharmaceutical Education and Research, Ale, Dist Pune on 7<sup>th</sup> Jan. 2012.
  - ✓ “Advance Analytical Techniques” at Shriman Sureshdada Jain College of Pharmacy, Chandwad, Dist Nashik on 20<sup>th</sup> Oct. 2010.
  - ✓ “Spectroscopic Analysis” at Bharati Vidyapeeth College of Pharmacy, Kolhapur on 24<sup>th</sup> Sep. 2011.
  - ✓ “Fundamentals and Applications of Spectroscopic Techniques” at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist Dhule on 8<sup>th</sup> and 9<sup>th</sup> Oct. 2010.
  - ✓ “Advance Pharmaceutical Analysis” at Sharadchandra Pawar College of Pharmacy, Otur, Dist Pune on 26<sup>th</sup> Dec. 2009.
  - ✓ Spectroscopy – Applications and related problems” at Shivnagar Vidya Prasark Mandal’s College of Pharmacy, Malegaon – Bharamati, Dist. Pune on 5<sup>th</sup> Dec. 2009.
  - ✓ “Advance Pharmaceutical Analysis” at Sharadchandra Pawar College of Pharmacy, Otur, Dist Pune on 20<sup>th</sup> Nov. 2009.
  - ✓ “Infra Red Spectroscopy” at Siddhant College of Pharmacy, Pune on 2<sup>nd</sup> Oct. 2009.
- **Resource Person**
  - ✓ Savitribai Phule Pune University, Pune Sponsored National Level Seminar on “Assuring the Quality of Medicine” organized by Vishal Institute of Pharmaceutical Education and Research, Ale, Dist Pune on 27<sup>th</sup> and 28<sup>th</sup> Feb. 2013.
  - ✓ Department of Biotechnology (DBT), Govt. of India Sponsored Two Days Training Program on “Modern Techniques for Analysis of Secondary Metabolites” organized by Pad. Vikhe Patil College of Arts, Science and Commerce, Pravaranagar on 7<sup>th</sup> and 8<sup>th</sup> Dec. 2011.
  - ✓ Chaired session at ICMR sponsored National level workshop on Recent Methods of Herbal Drug Analysis organized by Pravara Rural College of Pharmacy, Loni on 18<sup>th</sup> and 19<sup>th</sup> Nov. 2009.



## 26. Faculty serving in

- a) National committees                      b) International committees  
c) Editorial Boards                              d) any other (specify)

### Faculty serving in national and international committees

- **Prof. Dr. P. Y. Pawar**, Principal:
  - ✓ **Co-Chairman**, LOC Task Committee, APTICON 2014.
- **Prof. Dr. P. M. Gaikwad**, Professor and Head, Department of Pharmacology:
  - ✓ **Co-Chairman**, LOC Task Committee, APTICON 2014.
- **Prof. Dr. R. L. Sawant**, Professor and Head, Department of Pharm. Chemistry and PG studies:
  - ✓ **Chaired session** at ICMR sponsored National level workshop on Recent Methods of Herbal Drug Analysis organized by Pravara Rural College of Pharmacy, Loni on 18<sup>th</sup> and 19<sup>th</sup> Nov. 2009.
  - ✓ **Executive Member**, Association of Pharmaceutical Teachers of India, Maharashtra State.
  - ✓ **Member**, LOC Task Committee, APTICON 2014.
  - ✓ **Subject Expert** to evaluate Avishkar projects under Savitribai Phule Pune University, Pune at
    - \* BCUD Hall, Savitribai Phule Pune University, Pune
    - \* Arts Commerce and Science College, Rahuri.
    - \* Bhaskar Pandurang Hivale Education Society's Ahmednagar College.

### Faculty serving on the editorial boards

**Prof. Dr. R. L. Sawant**, Professor and Head, Department of Pharm. Chemistry and PG studies is serving as a member of Advisory Board, International Journal of Pharmaceutical Excellence (ISSN 2349-493X).

## 27. Faculty recharging strategies (Refresher/orientation programs, workshops, training programs and similar programs).

### List of workshops/training programs/sensitization programs conducted by the institution

Sr. no.	Date	Programme topic	Funding agency
1.	19 <sup>th</sup> Dec. 2009	One day seminar on "Clinical Trials – Current Scenario"	University of Pune, Pune.
2.	8 <sup>th</sup> - 9 <sup>th</sup> Jan. 2010	Two days workshop on "Drug Design Techniques: Fundamentals and Future (DDTFF-2010)"	University of Pune, Pune.
3.	4 <sup>th</sup> Jan. 2011	One day seminar on "Quality Assurance and Pharmaceutical Regulatory affairs"	University of Pune, Pune.
4.	5 <sup>th</sup> Jan. 2011	One day seminar on "Lead molecule from Natural Product"	University of Pune, Pune.
5.	10 <sup>th</sup> - 22 <sup>nd</sup> Jan. 2011	Two weeks Staff Development Program (SDP) on "Recent Advances in Drug Design Discovery"	AICTE, New Delhi
6.	2 <sup>nd</sup> Mar. 2012	One day seminar on "Advances in experimental Pharmacology"	University of Pune, Pune.
7.	3 <sup>rd</sup> Mar. 2012	One day seminar on "Pharmaceutical Quality by Design"	Funded by Institute
8.	5 <sup>th</sup> Jan. 2013	One day seminar on "Generic Drug"	University of Pune,

		Product development Industry Overview”	Pune.
9.	26 <sup>th</sup> - 27 <sup>th</sup> Dec. 2013	Two days National level seminar on “Computational Chemistry in Anticancer Drug Research”	AICTE, New Delhi
10.	20 <sup>th</sup> - 21 <sup>st</sup> Nov. 2014	Two days seminar on “Pharmaceutical Product Development and Technology Transfer”	Savitribai Phule Pune University, Pune

## 28. Student projects

- percentage of students who have taken up in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities / industry / institute

Percentage of students who have taken up in-house projects including inter-departmental projects

Year	Percentage of in-house projects	
	Undergraduate	Postgraduate
2011-12	100	82.86
2012-13	100	79.42
2013-14	100	92.85
2014-15	100	91.43

Percentage of students doing projects in collaboration with other universities / industry / institute

Year	Percentage of projects done outside in collaboration by postgraduate students
2011-12	17.14
2012-13	20.58
2013-14	7.14
2014-15	8.57

## 29. Awards/recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students

Awards received by the faculty

Name of faculty	Research award details
Prof. Dr. R. L. Sawant	Thesis of Mr. Hardas Dnyaneshwar Bhaguji under the guidance of Prof. Dr. R. L. Sawant entitled “Design and synthesis of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents” was shortlisted for <b>National Level Innovative Best Thesis Awards – 2015.</b>
	<b>Awarded first prize in National VLife Best Research Publication Award</b> , June 2013 for the topic entitled “Computer aided design and synthesis of calcium channel blocking octahydroquinazolinone derivatives as cardio protective agents.”

	Thesis of Ms. Ramdin Supriya Sudhakar under the guidance of Prof. Dr. R. L. Sawant entitled “Design and microwave assisted synthesis of novel 5HT <sub>2A</sub> receptor antagonists as antipsychotic agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2013.</b>
	<b>Awarded second prize in National Level VLife Best Research Publication Award</b> , May 2011 for the topic entitled “Synthesis, molecular docking and cardioprotective activity of 2-methylthio-1, 4-dihydropyrimidines.”

**Awards received by the students**

Sr. no.	Name of students	Guide	Research award details
1	Dyaneshwar Hardas	Prof. Dr. R. L. Sawant	Thesis entitled “Design and synthesis of novel dihydrofolate reductase inhibitors as potential anti-microbial and anti-cancer agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2015.</b>
2.	Ganesh Barkade	Prof. Ms. J. B. Wadekar	“Mosquito Repellant Candle: A new way to fight against mosquitoes” was selected in Avishkar research competition for Zonal level, University level and <b>shortlisted for State level</b> Avishkar research competition in UG Category 2014 for Pharmacy faculty from Savitribai Phule Pune University, Pune.
3.	Dyaneshwar Hardas, Sagar Mogal and Dyaneshwar Takle	Prof. Dr. R. L. Sawant	AICTE sponsored two days National seminar on Computational Chemistry in Anticancer Drug Research, 26 <sup>th</sup> and 27 <sup>th</sup> Dec. 2013, at PDVVPF's College of Pharmacy, Vilad Ghat, Ahmednagar ( <b>First prize</b> ).
4.	Ajit Chanale	Prof. M. K. Tarkase	antioxidants activity of biscuit supplement with amla and aloe vera powder was selected in Avishkar Research competition for Zonal level ; University level and at <b>State level Avishkar Research competition in UG Category for Pharmacy faculty from Savitribai Phule Pune University in 2013.</b>
5.	Supriya Ramdin	Prof. Dr. R. L. Sawant	Thesis entitled “Design and microwave assisted synthesis of novel 5HT <sub>2A</sub> receptor antagonists as antipsychotic agents” was shortlisted <b>for National Level Innovative Best Thesis Awards – 2013.</b>
6.	Mahesh Dokhe, Girish Shinde and	Prof. K. N. Tarkase	Won Second Prize in the Oral Presentation Competition on “An ideal design of plant for manufacturing of pharmaceutical dosage forms” on 23-25th Feb 2012, organized by

	Abhijeet Ganorkar		MET'S Institute of Pharmacy, Nashik, Maharashtra.
7.	Pradeep Bhoi	Prof. K. N. Tarkase	Formulation, optimization and estimation of aloe vera jelly bar as a oral laxative was selected in Avishkar Research competition for Zonal level, University level and at <b>State level Avishkar Research competition – 2011-12 in UG Category for Pharmacy faculty from University of Pune.</b>
8.	Ankita K. Bhatiyani and Angha Rasne	Prof. Dr. R. L. Sawant and Prof. Ms. J. B. Wadekar	“Need for magnification on research of rare diseases”, ICMR sponsored National level workshop on Preclinical Pharmacology: Conventional to In Silico organized by Pravara Rural College of Pharmacy, Loni on 27 <sup>th</sup> and 28 <sup>th</sup> Dec. 2009. <b>(Third prize)</b>
9.	S. A. Anvekar	Prof. Dr. R. L. Sawant and Prof. Ms. J. B. Wadekar	‘Dihydrofolate reductase as a therapeutic target’ presented in National Conference on “Emerging Trends in Biotechnology for Modern Era” held on 29-30 Sept. 2007 at College of Computer Science and Information Technique, Latur. <b>(Third prize)</b>

**30. Seminars/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

**List of seminars/conferences/workshops organized**

Programme topic	Funding agency
One day seminar on “Clinical Trials – Current Scenario”	University of Pune, Pune.
Two days workshop on “Drug Design Techniques: Fundamentals and Future (DDTFF-2010)”	University of Pune, Pune.
One day seminar on “Quality Assurance and Pharmaceutical Regulatory affairs”	University of Pune, Pune.
One day seminar on “Lead molecule from Natural Product”	University of Pune, Pune.
Two weeks Staff Development Program (SDP) on “Recent Advances in Drug Design Discovery”	AICTE, New Delhi
One day seminar on “Advances in experimental Pharmacology”	University of Pune, Pune.
One day seminar on “Pharmaceutical Quality by Design”	Funded by Institute
One day seminar on “Generic Drug Product development Industry Overview”	University of Pune, Pune.
Two days National level seminar on “Computational Chemistry in Anticancer Drug Research”	AICTE, New Delhi
Two days seminar on “Pharmaceutical Product Development and Technology Transfer”	Savitribai Phule Pune University, Pune

### 31. Code of ethics for research followed by the departments

The research activities are monitored regularly to ensure code of ethics for research is followed.

### 32. Student profile program-wise

Name of the program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B. Pharmacy	Through centralized process	35	22	74.28	90.90
M. Pharmacy	Through centralized process	22	15	100	100

### 33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B. Pharmacy	53	07	01	--
M. Pharmacy	34	05	02	--

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

#### Details of GPAT qualified students

Result Statistics	2011-12	2012-13	2013-14	2014-15
Total strength of class	67	72	57	66
No. of students qualified	02	06	03	12

### 35. Student progression

Student progression	2010-11	2011-12	2012-13	2013-14
UG to PG	13%	49.25%	30.66%	45%
PG to M.Phil.	NA	NA	NA	NA
PG to Ph.D	NIL	NIL	5.88%	3.45%
Employed • Campus selection • Other than campus recruitment	30%	25.49%	17.92%	20.93%

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	3.84 %
from other universities within the State	46.13 %
from universities from other States	49.99 %
from universities outside the country	0%

37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period : 05

38. Present details of departmental infrastructural facilities with regard to

a) Library:

Particulars	Number
No. of Books	12262
No. of reference books	343
No. of Titles	1753
Theses	116
Journals	26
Magazines	03
Back volumes	150

b) Internet facilities for staff and students

College has central computer room and 103 computers out of that about 100 are provided with internet facility. Dedicated computer facility is provided and computer- student ratio is 1:3. LAN facility is provided with cat 6 LAN cable. College has broad band internet connection with 2 mbps band width speed.

- c) Total number of class rooms : 05  
d) Class rooms with ICT facility and 'smart' class rooms : 03  
e) Students' laboratories : 18  
f) Research laboratories : 05

39. List of doctoral, post-doctoral students and Research Associates

- a) From the host institution/university : 07  
b) From other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university : Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.  
Not applicable.

42. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation and how does the department utilize the feedback?

The University refers guidelines laid down by All India Council for Technical Education and Pharmacy Council of India during reforming of curriculum. The institute is affiliated to Savitribai Phule Pune University and follows the curricula as designed by University. Faculty members of our college who are the members of board of study have been actively involved in curriculum design, planning and implementation of course curriculum, rest of faculty members gives necessary suggestions as per the need to improve quality of curriculum.

b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?



The college has mechanism to evaluate performance of teachers through Feedback collected from students, parents and alumni.

**Process:**

**Step 1:** Hardcopy of feedback form is supplied to each student after every semester in class room.

**Step 2:** Students fill up forms individually and confidentially within a specified time and submits to academic committee.

**Step 3:** Academic committee confidentially scrutinizes the data obtained.

**Step 4:** Academic coordinator orally instructs the faculty regarding feedback and give necessary directions for the quality enhancement and improvement in subsequent years.

**Step 5:** Feedback received from parents and alumni's are utilized for improvement in various aspects like infrastructure facilities, curriculum and suggestions from them are taken into consideration for improvement in quality of teaching –learning process.

During syllabus revision, necessary care is taken by University to improve the curriculum Feedback from students to respective class teacher with additional suggestion is conveyed to our senior faculties. Our senior faculties are the members of Board of Study and syllabus committee who are involved in syllabus designing. Also few faculties are deputed to syllabus orientation program. The alterations, modifications, deletions and omissions are incorporated before final framework of curriculum by the Board of Study members in University. Various aspects like recent development in the field, academic, industrial and hospital trends, multi-skill development, development of creativity and originality, values and social factors are taken into consideration while designing curriculum. Immense stress is given by experts to incorporate more practically inclined portion. It benefits the students in long run.

**c) Alumni and employers on the programs offered and how does the department utilize the feedback?**

Our management, staff members and all other stakeholders works collectively. Feedbacks on the various activities of the institution are collected regularly. The feedback forms are analyzed by the academic committee which helps in overall development of the institution.

- Students suggestion on contents of curriculum
- Students feedback on teaching learning process
- Verbal discussion with students by counselor/mentor
- Open session with Principal, academic monitoring committee.
- Suggestion box
- Feedback from outgoing students
- Feedback from alumni
- Suggestions are sought from parents
- Employer feedback
- Staff student parent meet.

**43. List the distinguished alumni of the department (maximum 10)**

Sr. no.	Name	Designation
1.	Mr. Mirajkar Sunil Anantro	Group leader, Accutest Research Lab, Thane
2.	Mr. Sher Praveen Makhanlal	3Bs research group, University of Minho, Braga, Portugal
3.	Mr. Maskare Datta Tanaji	Manager Technical, Cipla Ltd., Mumbai
4.	Ms. Shahapure Pradnya Nandkumar	Group leader, R & D, Ranbaxy Lab. Ltd., Delhi
5.	Dr. Mane Avinash Ramkisan	Senior Research Scientist, Sun Pharmaceuticals Ltd., Mumbai
6.	Mr. Shah Sameer Dilipkumar	Director. Medico Healthcare, Ahmedabad
7.	Mr. Sonje Gajanan Ramesh	General Manager, Kusum Healthcare India Ltd., Alwar, Rajasthan
8.	Mr. Dongare Ketan Sadashiv	Premier Research Group, Wheeling, Illinois, Chicago, USA
9.	Mr. Assudani Ravindra Rameshlal	Pharmacist, Rite Aid Pharmacy, California, USA
10.	Mr. Khandwe Prashant Manohar	HR. Manager, Cipla, Patalganga, Panvel, Mumbai

**44. Give details of student enrichment programs (special lectures / workshops/seminar) involving external experts.**

**Special lectures organized in the college**

Resource person	Topic	Qualities developed
Dr.Arun Ingale	Leadership communication and Interview techniques	Overall personality like dressing sense, hygiene, public speaking, eating habits, etiquettes etc. get developed in students
Prof.Ganesh Shinde	Soft skill and Personality development	
Mr.Girish Kulkarni	Interview Technique	
Mr.P.D.Thorat	Carrier guidance in Pharmacy	
Mr.Amol Acharekar	Personality development	
Prof. Anil Khandare	Soft skill and Interview Techniques	
Mr.Rajesh Chavan	Personality development	It helps the student to become tension free and enhances the confidence among the students
Mr.Pramod Karhad	Swami Vivekananda	
Prof.R.R.Kumbhar	Emotional Intelligence	Preparation of students for competitive exams
Prof.Rajendra patil	GPAT preparation	

**Details of conferences organized by the college**

Sr. no.	Theme of seminar/workshop/SDP	Name of eminent scientists/scholars participated	Address
	2009-2010		
1.	One day seminar on “Clinical Trials – Current Scenario” (19 <sup>th</sup> Dec. 2009)	Dr. Ravindra B. Ghooi	Dean, Bilcare Research Academy, Pune
		Mr. Sanjay M. Patil	Assoc. Manager, Clinical Operation Eisai Clinical Research Mumbai
		Mr. Atul A. Wagle	Q. A. Associate, Trident Clinical Research India Pvt. Ltd., Mumbai
2.	Two days workshop on “Drug Design Techniques: Fundamentals and Future (DDTFF-2010)” (8 <sup>th</sup> and 9 <sup>th</sup> Jan. 2010)	Dr. Manish S. Bhatia	Vice Principal, Bharati Vidyapeeth College of Pharmacy, Near Chitranagri, Kolhapur, PIN 416013
		Dr. Kishore S. Jain	Principal, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
		Dr. Kundan Ingale	Application Scientist, VLife Sciences and Technologies Pvt. Ltd., Pune
		Dr. Anil Deshpande	Advinus Therapeutics Pvt. Ltd., Quantam Toewrs, Hinjwadi, Pune 411057
		Dr. Sanjay Bari	Principal, SES's R.C. Patel College of Pharmacy,Near Karwand Naka, Shirpur Dist-Dhule PIN 425405
		Dr. S. R. Pattan	Principal, Pravara Rural Education Society's Pravara Rural College of Pharmacy, PravaranagarA/P-Loni BK, Tal. – Rahata Ahmednagar PIN 413736
	2010-2011		
3.	One day seminar on “Quality Assurance and Pharmaceutical Regulatory affairs” (4 <sup>th</sup> Jan. 2011)	Dr. Mandar Koudgule	Associate Vice President and Head, Global Intellectual Property and Strategic Planning, Wockhardt Ltd. Aurangabad
		Dr. P. K. Puranik	Professor, Government College of Pharmacy, Hotel Vedant Road Opp. Govt. Polytechnic, Aurangabad, PIN 431005
		Prof. Vinayak Sarode	Professor, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
4.	One day seminar on “Lead molecule from Natural Product”	Dr. Pravin Wakte	Head of Chemical Technology, Pharmaceutical Technology Division, Dr. Babasaheb

	(5 <sup>th</sup> Jan. 2011)		Ambedkar Marathwada University, Aurangabad
		Dr. R. B. Jadhav	Principal, Rajamata Jijau Shiksan Prasark Mandal College of Pharmacy, Dudul Gaon, Gat No.101-102, Moshi Alandi Rd., Dudul Gaon, Pune PIN 412105
		Dr. Subhash Mehetre	Director of Research, Mahatma Phule Krishi Vidyapeeth, Rahuri, Ahmednagar
5.	Two weeks Staff Development Program (SDP) on "Recent Advances in Drug Design Discovery" (10 <sup>th</sup> -22 <sup>nd</sup> Jan. 2011)	Dr. K.S. Jain	Principal, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Budruk), Off. Sinhgad Road, Pune 411041
		Dr. Ravi kumar	Senior application Scientists, Schrodinger, Bangalore
		Dr. Nilesh M. Dagia	Vice President – Integrated Drug Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Jayant J. Khandare	Senior Research Scientist, Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Sanjay Kumar	Senior Group Leader, Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. Abhijit Roy Chaudhary	Assistant Director Piramal life sciences Ltd., Goregaon (E), Mumbai
		Dr. V. M. Kulkarni	Professor Emeritus, Poona College of Pharmacy Bharati Vidyapeeth University, Pune
		Mr Kundan Ingle	Application Scientist, VLife sciences and technologies Pvt. Ltd., Pune
		Dr. Evans Coutinho	Professor and Head, Dept. of Pharm. Chemistry, Bombay College of Pharmacy, Mumbai
		Dr. S. H. Bhosale	Professor in Pharm. Chemistry, Poona College of Pharmacy, Pune
		Mr. Rajaram Patil	Sr. manager, Thermo Fisher Scientific Application, Thane (W), Mumbai.
		Dr. V. A. Savangikar	Patent Attorney, Krishna and Saurashtri Asso., Nasik
		Mr. Saikar Malik	M/s. Anchrom Enterprises (I) Pvt. Ltd 1st floor, Shri Aniket Apartment Navghar Road, Mulund (E) Mumbai – 400 081 (India)
		Dr. Vijay Khanna	Head, Organic and drug chemistry, B.P.H Education

			Society's Ahmednagar College. Station Road, Ahmednagar - 414001
		Dr. C. D. Upasani	Principal, S.N.J.B.'s Shri man Sureshdada Jain College of Pharmacy, Chandwad, Nashik
		Dr. C. R. Patil	Professor in Pharmacology, SES's R. C. Patel College of Pharmacy, Shirpur, Dhule
		Dr. V. K. Mourya	Principal, Government College of Pharmacy, Aurangabad
		Dr. R. B. Navale	Department of Pharmacology, Government College of Pharmacy, Aurangabad
		Dr. Anil Deshpande	Senior Research Investigator-II, Advinus Therapeutics Pvt. Ltd., (A TATA Enterprise), Pune
	<b>2011-2012</b>		
6.	One day seminar on "Advances in experimental Pharmacology" (2 <sup>nd</sup> Mar. 2012)	Dr. S. B. Kasture	Principal, Sanjivani Rural Education Society's Sanjivani College of Pharmaceutical and Research, Kopargaon, At- Sahajanandnagar, Post- Shingnapur, Tal. Kopargaon, Ahmednagar PIN 423603
		Dr. C. D. Upasani	Principal, SNJB's Shriman Sureshdada Jain College of Pharmacy, A/P.Neminagar, Tal. Chandwad, Dist. Nashik-423101
7.	One day seminar on "Pharmaceutical Quality by Design" (3 <sup>rd</sup> Mar. 2012)	Mr. Kedar Suvarnapatki	Head Regulatory Affairs, Boehringer Ingelheim India Pvt. Ltd., Mumbai, Maharashtra, India
		Dr. Sanjay Boldhane	Associate Director-Innovative Drug Delivery Research at Abbott Healthcare Pvt. Ltd., Mumbai
		Dr. Rajendra Bandgar	Head- Quality Assurance R & D, Lupin Research Park, Pune
	<b>2012-2013</b>		
8.	One day seminar on "Generic Drug Product development Industry Overview" (5 <sup>th</sup> Jan. 2013)	Mr. M. M. Atre	Vice- President, Concept Pharmaceutical, Aurangabad
		Mr. Ganesh Rokade	Drugs Inspector at CDSCO
		Mr. Akshay Khairnar	Formulation Scientist, Watson Pharma Pvt. Ltd., Mumbai
	<b>2013-2014</b>		
9.	Two days National level seminar on "Computational Chemistry in Anticancer	Dr. Rajiv Gude	Scientific Officer, "F" Advance Centre For Treatment, Research and Education in Cancer, Navi Mumbai

	Drug Research” (26 <sup>th</sup> and 27 <sup>th</sup> Dec. 2013)	Dr. Srinivasa Reddy	Senior Scientist, National Chemical Lab, Pune
		Dr. Sami Mukhopadhyay	Head, Research Services, VLife Sciences Technology, Pune
	<b>2014-2015</b>		
<b>10.</b>	Two days seminar on “Pharmaceutical Product Development and Technology Transfer” (20 <sup>th</sup> and 21 <sup>st</sup> Nov. 2014)	Mr. Digambar Nigade	Vice President, Quality Operations, Wockhardt Ltd., Aurangabad
		Mr. Vishal Kachare	Sr. Research Fellow, Team Leader, Oral Solids, Emcure Pharmaceuticals Ltd., Pune
		Mr. Rajesh Thorve	Research Scientist, Glenmark Pharmaceuticals Ltd., Mumbai
		Dr. Shivdas Dhas	Associate Vice President, Project Management, Wockhardt Ltd., Aurangabad

**45. List the teaching methods adopted by the faculty for different programs including clinical teaching.**

The technology and facilities are available and used by the faculty for effective teaching.

- A classroom with LCD facility, seminar hall, computerized library, computer laboratory.
- Use of OHP, Educational CD's, permanent transparencies, open access journals.
- Faculty uses Power point presentation during classes and practical's to make teaching more effective.
- Faculty uses internet for downloading information, science video's, practical demo films, etc for e-learning.
- Open educational resources like online scientific journals of Elsevier and Bentham is subscribed which is accessed by staff and students.
- Permanent slides of various tissues and organs help the students to learn physiology.
- Use of visual aids in all classrooms and use of it by staff and students make classroom teaching more effective.
- Use of Information and Communication Technique (ICT) during lectures and seminars.
- CD's of various books available in library are used by staff and students to enrich the e-learning environment.
- Access to e-journals also helps to make effective teaching.

The college does produce videos of pre-clinical cases. College has software related to preclinical pharmacology (X-cology) which helps in demonstrating techniques of animal handling and performing experiments related to isolated animal tissues and screening models of various drugs.

**46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?**

The college provides program objectives, outlines and schedules at the commencement of academic session.



**Program objective:**

- a. Pharmaceutical science is primarily concerned with the development of new medicines, including the design, disposition, delivery, action and use of drugs. This requires diverse subject knowledge including Pharmacology, Pharmaceutical chemistry, Pharmaceutics and Pharmacognosy.
- b. Objective of Pharmacy professionals regarding field of Pharmacy are to increase consumer awareness, increase in awareness that quality pharmaceutical care can be delivered only by pharmacists trained in direct patient care, community pharmacy.
- c. To optimize health of all members of society through the promotion of safe, effective and rational medicine use, patient counseling and monitoring of disease management through pharmaceutical care.
- d. Pharmacists and pharmaceutical scientists working within various discipline of pharmacy will be established and recognized as the medicine expert and an expert in health promotion and disease promotion.

Program objective is explained to students by senior faculty during induction programme and before commencement of academics by concerned subject teacher.

The college has clearly stated learning outcomes for its academic programs that are designed based on the curriculum. Students are made aware of these outcomes by giving greater emphasis on providing overall in depth knowledge regarding individual course. Learning outcomes are encouraged through participation of students in a wide variety of activities including lectures, seminars, workshops, laboratory-based practicals, external industrial visits and web-based learning. Students are also given greater exposure to usage and handling of modern tools, communication and self-assessment ability, decision making and applicability.

Staff members are made aware of the learning outcomes by attending various course related seminars/workshops. The propagation of Programme Educational Objectives to all the stakeholders of the program is done through faculty/ department meetings, orientation programs and parent meets.

**47. Highlight the participation of students and faculty in extension activities.**

- For mental health issue a guest lectures were organized of psychology teacher on 'emotional intelligence, oncologist on cancer awareness and tuberculosis as well as AIDS awareness'.
- Usually most of our students are engaged in various research activities like formulation development, chemical synthesis and its animal studies, analytical method development, etc. Students of our college are participating in innovative research project competition "Avishkar" organized every by university. Undergraduate and post graduate students are assigned projects to nurture a scientific temper regarding research and other related skills. Students are also encouraged to participate in seminars, conferences and poster presentations for exposure of personality development and also to gain professional knowledge. College arranges industrial visit for under graduate and

post graduate students to get exposure of professional, technical skills and also to better understand industrial culture in relevance to job features. Various e-learning tools like e-journals, e-books, demonstration CD's on animal experiments, experimental and statistical software's etc. are used in innovative research based studies by students.

- College facilitates its various faculties to attend faculty development programme to gain information about recent trends in technology and emerging areas of research.
- College promotes its faculty to participate in various seminars, workshops and conferences for development of teaching and research skills of faculty.
- Guest lecture of eminent persons from industry and other research organizations are being arranged for delivering recent and advanced knowledge about research and training to the faculty of institution.
- To meet the changing requirements of curriculum, college deputed faculty to attend curriculum orientation programme, curriculum designing programmes like implementation of credit system, problem based learning, etc.
- College arranges in-service training for all faculties like workshop on "Fluency in English" and "Personality Development programme".

**48. Give details of "beyond syllabus scholarly activities" of the department.**

College conducts various orientation/foundation courses for sensitizing the students to National integration, constitution of India, art and culture, empathy, women's empowerment in following ways:

**a. National integration and constitution of India:**

- Students are motivated to attend training programmes organized by 'Rashtriya Swayamsevak Sangh' about 'Entrepreneurship and Competitive exam guidance' to develop good qualities in students.
- Guest lectures of eminent personalities are arranged on 'National Integrity and Constitution of India' to create awareness and self confidence in students.
- Students participated in examination of "Gandhi Vichar Sanskar" arranged by Gandhi research foundation, Jalgaon; Maharashtra.

**b. Art and culture:**

To develop cultural attributes in students college provides platform and organizes various events for extracurricular activities like traditional day function, Ganesh festival, mehendi competition, rangoli competition etc.

**c. Women's empowerment:**

Students are sensitized about women empowerment through committee of 'Women cell' and various cultural activities arranged about women's empowerment to build self confidence and personality development of female students and faculty of the college.

The college incorporated the principles of life style modification for students such as extracurricular, co-curricular activities, indoor and outdoor sports.

- **Extracurricular activities:** Activities like annual day function, dance competition, drama and singing competition, fresher's program for undergraduate and postgraduate students are arranged in the college to improve student's inner drives creativity and art.
- **Co-curricular activities:** To develop knowledge of pharmacy profession, co-curricular activities like teacher day, cancer day, World AIDS day, and pharmacist day are arranged to develop a lifestyle modification.
- College motivates students to practice yoga and meditation by arranging guest lectures by yoga experts and also students practice yoga regularly. Books related to yoga / meditations are available for students in library.
- College organizes orientation / induction program and staff-parents-students meet for freshers after commencement of every academic.

**49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.**

No.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Innovative teaching methods adopted and implemented by the faculty to improve learning are as follows:

- a. Use of Factorial design software for optimization of formula by faculty was adopted as innovation techniques in teaching.
- b. Faculty are trained for operating and handling VLife MDS software of molecular modeling which makes learning more lucid and easy.
- c. Faculty uses computer based software's and downloaded materials for teaching theory and practical concepts.
- d. Moreover various pharmacology practical's are performed by using newer techniques on animal experimentation with aid of software's like X-cology (Experimental pharmacology) - An interactive educational CD-ROM for Pharmacy and X-Pharma 2.00 for windows-simulated experiments in pharmacology.
- e. For better co-relation of theory and industrial practice various demonstration of equipments, instruments are shown to students on CD's.
- f. Efforts made by the institution to adopt new innovative practices in teaching are :
  - College provided all facilities like ICT enabled classrooms, audio visual room, seminar hall and all infrastructure facilities.
  - Many types of software available which are essential for innovative teaching are available in college.
  - Organizes newer demo practical by industrial experts.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths**

- Huge infrastructure with proper utilization of natural resources.
- Supportive management and committed for quality education.

- Highly qualified, experienced and dedicated faculty.
- Specious and well equipped laboratories with sophisticated facilities.
- Efficient teaching learning system furnishing excellent results and contribution in research through publications in national and international journals.

**Weakness**

- Limited industry institute interaction.
- Little in campus placement.
- Poor number of patents for research.
- Due to rural background students admitted are weak in communication and soft skills.
- Non availability of pharmaceutical industry in home town.

**Opportunities**

- Establish industry institute interactions.
- Motivate patentable research.
- Facilitate interdisciplinary research.
- Revamp industry related consultancy services.
- Collaboration with national and international institutes.

**Challenges**

- Public awareness about the potential of pharmacist.
- Job placement of the students.
- Participation of industry in education.
- Maintain quality output in terms of students.
- Minimize gap between academic and commercial research.

**52. Future plans of the department.**

- To establish the Industry-Institute partnership cell.
- To have research collaboration and MOU with pharmaceutical industry.
- To start Ph.D. programme in different discipline.
- To encourage faculty for patentable research.
- To tie-up with foreign universities/ agencies for research and faculty and student exchange programme.

PADMASHREE DR. VITHALRAO VIKHE PATIL FOUNDATION'S  
**COLLEGE OF PHARMACY**  
Vilad-Ghat, P.O.-M.I.D.C., AHMEDNAGAR (MS)  
Phone No. (0241) 2778044 / 2777180 / 2777217,  
Fax No. : (0241) 2778044  
E-mail ID : pdcopha\_anrr@rediffmail.com  
Website : www.vikhepharmacynagar.com  
Permanently Affiliated to University of Pune, Pune.  
Approved by AICTE, PCI, New Delhi & Recognized by UGC, New Delhi.


Ref. No. : Coph/Esstt.-NAAC/2015/ 542(1) Date : 23 APR 2015

**Declaration by the Head of the Institution**

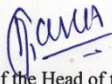
I certify that that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.



Place: Ahmednagar  
Date: 23/04/2015.

  
Signature of the Head of the institution  
with seal:





PADMASHREE DR. VITHALRAO VIKHE PATIL FOUNDATION'S  
**COLLEGE OF PHARMACY**

Vilad-Ghat, P.O.-M.I.D.C., AHMEDNAGAR (MS)  
Phone No. (0241) 2778044 / 2777180 / 2777217,  
Fax No. : (0241) 2778044

E-mail ID : pdcopha\_anrr@rediffmail.com  
Website : www.vikhepharmacynagar.com  
Permanently Affiliated to University of Pune, Pune.

Approved by AICTE, PCI, New Delhi & Recognized by UGC, New Delhi.



Ref. No. : Coph/Esstt./2015/448

Date : 4 APR 2015

## Certificate of compliance

This is to certify that, Pad. Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad-Ghat, Ahmednagar fulfils all norms.

1. Stipulated by the affiliating University and / or
2. Regulatory Council/Body (Such as UGC, NECTE, AICTE, MCI, DCI, BCI, PCI etc.) and
3. The affiliated and recognition (if applicable) is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.


It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the College website.

Date : 04/04/2015.

Place : Ahmednagar.



  
**Dr. P.Y. Pawar**  
Principal  
College of Pharmacy,  
Viladghat, Ahmednagar



# University of Pune

Telephone Nos. :  
020- 25691233  
25601258  
25601259  
25601257



ACADEMIC SECTION  
Ganeshkhind, PUNE-411007, INDIA  
Telegraph : 'UNIPUNE'  
Fax : 020-25691233  
Website : www.unipune.ac.in  
e-mail : dyracademic@unipune.ac.in

Ref. No. : CA/1145

Date : 31/8/2012

To,  
The Principal,  
Padmashri Dr. Vithalrao Vikhe Patil Foundation's  
College of Pharmacy, Vilad-Ghat, M.I.D.C.  
Ahmednagar-414 111

Sub : Grant of Permanent Affiliation to B. Pharmacy course from Academic  
Year 2010-11

Sir,

Referring to the subject captioned above, I am directed to inform you that the University Authorities have been pleased to grant **Permanent Affiliation** to B. Pharmacy course of your College according to section 88 of the Maharashtra University Act, 1994. Subject to the terms & conditions laid down by the University of Pune, Government of Maharashtra & All India Council for Technical Education etc., from time to time, with effect from the Academic year 2010-11 Which may pleased be noted.

## Under Graduate Course :

**B. Pharm. (Intake-60)**

Yours Faithfully,

*[Signature]*  
31.8.12  
for Director,  
B.C.U.D

## **Copy forwarded with compliments for information & necessary action to:**

- 1.The Secretary, Higher & Technical Education, Mantralaya, Mumbai-400 032.
- 2.The Administrative Officer, Higher Education Grant, Pune Division, Maharashtra State, 17, Dr. Ambedkar Road, Near Sent Mathyu Marathi Church, Opp. Lal Mandir, First Floor, Pune- 411 001.
- 3.The Dy. Registrar, Development Section, University of Pune, Pune- 411 007.

Estt / Imp.

Not approved for  
or discuss.

*[Signature]*  
9/4/12



दुरध्वनी क्रमांक :

०२०-२५६९१२३३

२५६०१२५७

२५६०१२५८

२५६०१२५९



15010136

## सावित्रीबाई फुले पुणे विद्यापीठ



शैक्षणिक विभाग

गणेशखिंड, पुणे-४११००७.

टेलिग्राफ : 'युनिपुणे'

फॅक्स : ०२०-२५६९१२३३

वेबसाइट : www.unipune.ac.in

ई-मेल : dyracademic@unipune.ac.in

संदर्भ क्र.: सीए/१२१८

दि.: ३०/०३/२०१५

प्रति,

मा. प्राचार्य,

पद्मश्री डॉ विठ्ठलराव विखे पाटील फाउंडेशन कॉलेज

ऑफ फार्मसी पता: विलड-घाट, ता.: अहमदनगर जि:

अहमदनगर

विषय:- शैक्षणिक वर्ष २०१५-२०१६, २०१६-२०१७, या वर्षाकरिता सलग्नीकरणाचे नुतनीकरण

महोदय,

वरील विषयासंदर्भात विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०१५-२०१६, २०१६-२०१७, या वर्षाकरिता खालील रकान्यात नमूद केलेल्या अभ्यासक्रमांच्या सलग्नीकरणाच्या नुतनीकरणास / नैसर्गिकवादीस अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली व तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन यांचे अभ्यासक्रम व प्रवेश क्षमता मान्यतेच्या अधीन राहून तसेच अहवालातील अटी व शर्तीची पूर्तता विद्यापीठाचे हे पत्र निर्गमित झाल्याच्या तारखेपासून तीन महिन्यांच्या आत पूर्ण करण्याच्या अटीवर परवानगी देण्यात येत आहे .

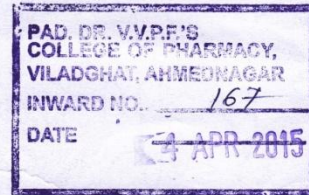
अनु. क्र.	अभ्यासक्रमाचा तपशील	विद्यार्थी संख्या	प्रथमपाळी/द्वितीय पाळी	सलग्नीकरणाचा प्रकार
1	एम.फार्म. क्वालिटी अशुरेन्स टेक्नीक्स	18	2015-2016 : - वर्ष प्रथम व द्वितीय- Div No.1., 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1.,	नूतनीकरण
2	एम.फार्म. फार्मकॉलॉजी	18	2015-2016 : - वर्ष प्रथम व द्वितीय- Div No.1., 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1.,	नूतनीकरण
3	एम.फार्म. फार्मास्युटिकल केमिस्ट्री	18	2015-2016 : - वर्ष प्रथम व द्वितीय- Div No.1., 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1.,	नूतनीकरण
4	एम.फार्म. फार्मास्युटिक्स	18	2015-2016 : - वर्ष प्रथम व द्वितीय- Div No.1., 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1.,	नूतनीकरण

कळावे,

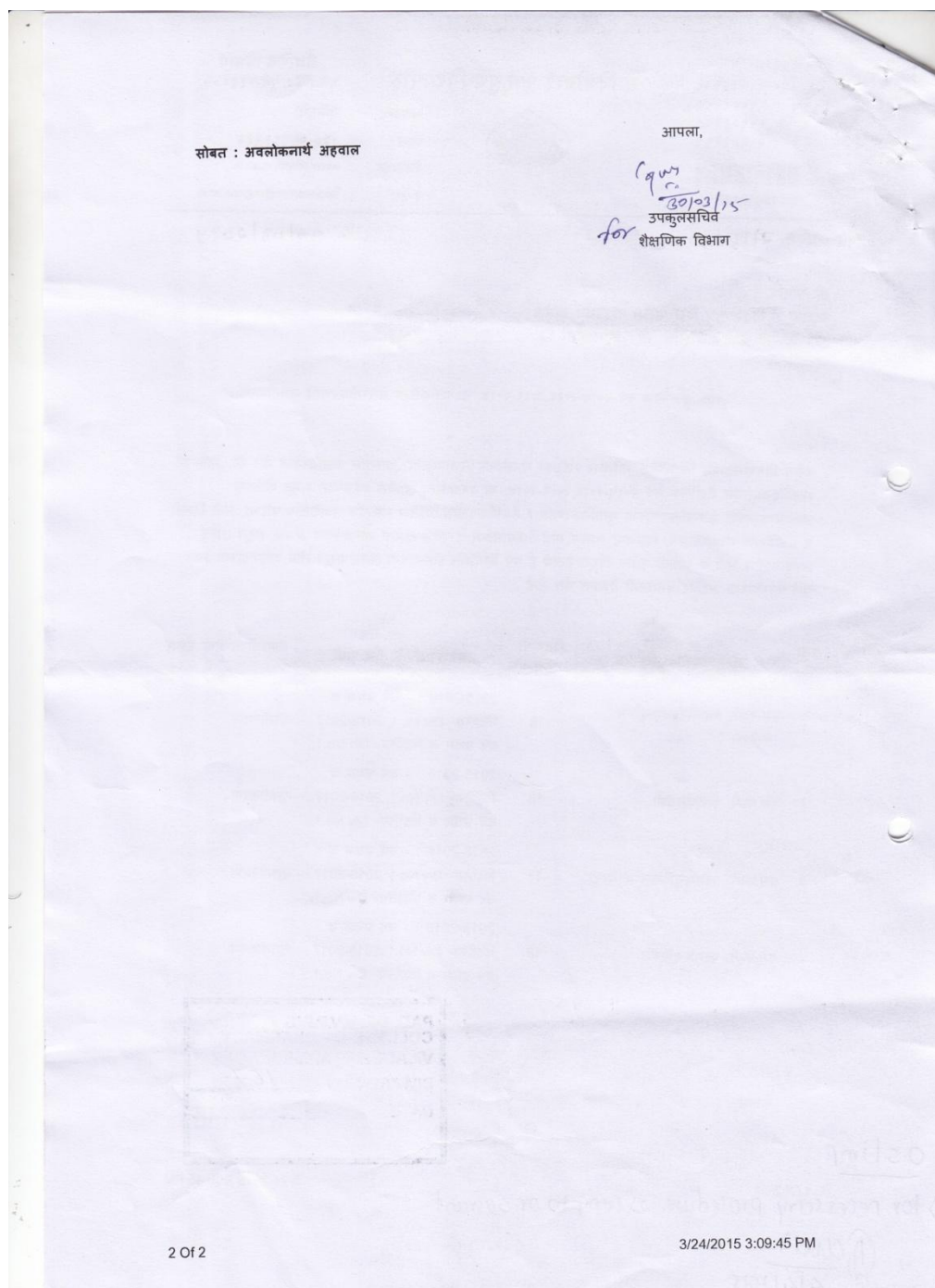
o.s.limp.

1) for necessary proedure. 2) copy to dr-sawant.

Dr. Sawant  
4/4/2015



3/24/2015 3:09:45 PM



## ENGLISH VERSION

Telephone Nos. :

020 – 25691233

25601257

25601258

25601259

15010136



SAVITRIBAI PHULE PUNE UNIVERSITY

सावित्रीबाई फुले पुणे विद्यापीठ

॥ यः क्रियावान् स पण्डितः ॥

## ACADEMIC SECTION

Ganeshkhind, Pune-411007, India,

Telegraph : "UNIPUNE"

Fax : 020 – 25691233

Website : www.unipune.ac.in

E-mail : dyracademic@unipune.ac.in

Ref. No. : CA/1216

Date : 30/03/2015

To,

The Principal,

Padmashri Dr. Vithalrao Vikhe Patil Foundation's

College of Pharmacy, Vilad-Ghat, Tal. Ahmednagar.

Dist. Ahmednagar.

**Subject:-** Continuation of affiliation for the academic year 2015-2016, 2016-2017.

Sir,

With reference to the subject cited above, I am directed to inform you that, the University authority have been pleased to grant continuation of affiliation to your institute for the academic year 2015-2016, 2016-2017 as per below mentioned table. This is subjective to the approval of intake capacity by AICTE, New Delhi, Directorate of Technical Education, Maharashtra Govt. The said approval is conditional and subjective to submission of compliance report within three months from the date of issue of this letter.

Sr. no.	Course details	Students intake	First year /Second year	Type of affiliation
1.	M.Pharm. Quality Assurance Techniques	18	2015-2016: First Year and Second Year – Div. no. 1. 2016-2017: First Year and Second Year – Div. no. 1.	Continuation
2.	M.Pharm. Pharmacology	18	2015-2016: First Year and Second Year – Div. no. 1. 2016-2017: First Year and Second Year – Div. no. 1.	Continuation
3.	M.Pharm. Pharmaceutical Chemistry	18	2015-2016: First Year and Second Year – Div. no. 1. 2016-2017: First Year and Second Year – Div. no. 1.	Continuation
4.	M.Pharm. Pharmaceutics	18	2015-2016: First Year and Second Year – Div. no. 1. 2016-2017: First Year and Second Year – Div. no. 1.	Continuation

Thanking you,

Yours

Sd/-

**Dy. Registrar**  
(Academic Section)

Encl : Report.



## पुणे विद्यापीठ



## शैक्षणिक विभाग

गणेशखिंड, पुणे-४११००६.

टेलिग्राफ : 'युनिपुणे'

फॅक्स : ०२०-२५६९१२३३

वेबसाइट : www.unipune.ac.in

ई-मेल : dyracademic@unipune.ac.in

दिनांक : ३१/०७/१२

संदर्भ क्र. : सीए ८४२

प्रती,

मा.प्राचार्य

पद्मश्री डॉ. विठ्ठलराव विखे पाटील फाउंडेशनचे,  
कॉलेज ऑफ फार्मसी, एम.आय.डी.सी. पोस्ट ऑफिस,  
विल्ड-घाट, अहमदनगर-४१४ १११.

विषय-संशोधन केंद्राच्या नव्याने मान्यतेबाबत

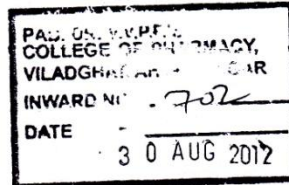
महोदय,

उपरोक्त विषयानुसार कळविण्यात येते की, आपल्या महाविद्यालयातील शैक्षणिक वर्ष २०११-१२ ते २०१३-१४ या तीन वर्षाकरिता फार्मास्युटिकल केमेस्ट्री या विषयातील पीएच. डी. संशोधन केंद्राच्या नव्याने मान्यतेस दर सहा महिन्याच्या प्रोग्रेस रिपोर्ट देण्याच्या अटीवर परवानगी देण्यात येत आहे.

आपली विश्वासू

*[Signature]*  
उपकुलसचिव ३०.७.१२  
(शैक्षणिक विभाग)

सोबत-अहवाल



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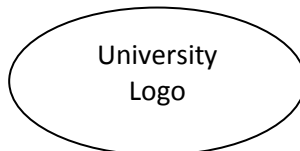
take a note to H.O. for informat.  
copy to Dy. Secy.

*[Signature]*  
Nevase

ENGLISH VERSION

UNIVERSITY OF PUNE

Telephone Nos. :  
020 – 25691233  
25601257  
25601258  
25601259



**ACADEMIC SECTION**  
**Ganeshkhind, Pune-411007, India,**  
Telegraph : "UNIPUNE"  
Fax : 020 – 25691233  
Website : www.unipune.ac.in  
E-mail : dyracademic@unipune.ac.in

Ref. No. : CA/842

Date : 31/07/2012

**To,**  
**The Principal,**  
Padmashri Dr. Vithalrao Vikhe Patil Foundation's  
College of Pharmacy, Vilad-Ghat, P.O. M.I.D.C., Vilad-Ghat,  
**Ahmednagar – 414 111.**

**Subject :-** Regarding New Affiliation of Ph.D. Research Centre.

**Sir,**

With reference to the subject cited above, I am directed to inform you that, the University authority have been pleased to grant new affiliation for **Ph.D. Research Centre** to your institute **for the academic year 2011-12 to 2013-14**, as per the conditional clause of submission of progress report after every six months.

Thanking you,

Yours

Sd/-

**Dy. Registrar**  
(Academic Section)

Encl : Report.



Ph. 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)

UGC Website: [www.ugc.ac.in](http://www.ugc.ac.in)

F. No. 8-193/2009 (CPP-I/C)

The Registrar,  
University of Pune,  
Ganeshkhind,  
Pune - 411 007,  
**Maharashtra.**



विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

February, 2012

2 MAR 2012

**Sub: - Recognition of College under Section 2 (f) of the UGC Act, 1956.**

Sir,

I am directed to refer to the letter No. Coph/Esstt/2011/4651 dated 14.12.2011 received from the Principal, Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad Ghat, P.O. - M.I.D.C., Ahmednagar - 414 111, (Maharashtra) on the above subject and to say that it is noted that the college is **private management** and **temporarily** affiliated to **University of Pune**. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head '**Non-Government** Colleges teaching upto **Master's Degree**:-

Name of the College	Year of Establishment	Remarks
Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad Ghat, P.O. - M.I.D.C., Ahmednagar - 414 111, (Maharashtra).	1994-95	The college does not fulfill the requirement of permanent affiliation. Therefore, the college is <b>not</b> eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

*Shashi*  
(Shashi Bala Arora)  
Under Secretary

Copy to:-

1. The Principal, Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad Ghat, P.O. - M.I.D.C., Ahmednagar - 414 111, (Maharashtra).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Principal Secretary, Tech. & Higher Education Deptt., Government of Maharashtra, Mantralaya, Annexe Building, Mumbai - 400 032, (Maharashtra).
4. The Deputy Secretary, UGC, Western Regional Office (WRO), Ganeshkhind, Poona - 411 007, (Maharashtra).
5. Publication Officer (UGC-Website), New Delhi.
6. Section Officer (FD-III Section), UGC, New Delhi.
7. All Sections, UGC, New Delhi.
8. Guard file.

*fast / imp.*  
for necessary informat<sup>n</sup>  
*Shashi*

*Sunita*  
(Sunita Gulati)  
Section Officer



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. Western/1-2014180074/2014/EOA

Date: 04-Jun-2014

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

Sub: Extension of approval for the academic year 2014-15

Ref: Application of the Institution for Extension of approval for the academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2014180074
		Permanent Id	1-4836951
Name of the Institute	PADMASHRI DR.VITHALRAO VIKHE PATIL FOUNDATION'S COLLEGE OF PHARMACY	Institute Address	P.O.M.I.D.C., VILAD-GHAT, AHMEDNAGAR-414111 (MAHARASHTRA), AHMEDNAGAR, AHMEDNAGAR, Maharashtra, 414111
Name of the Society/Trust	PADMASHRI DR.VITHALRAO VIKHE PATIL FOUNDATION, AHMEDNAGAR.	Society/Trust Address	P.O.M.I.D.C., VILAD-GHAT, AHMEDNAGAR (MS), AHMEDNAGAR, AHMEDNAGAR, Maharashtra, 4 14111
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2014-15

Application Number: 1-2014180074\*

Page 1 of 3

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:5 June 2014

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Application Id: 1-2014180074			Course	Full/Part Time	Affiliating Body	Intake 2013-14	Intake Approved for 14-15	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
PHARMACY	1st Shift	POST GRADUATE	MEDICAL PHARMACEUTICAL CHEMISTRY	FULL TIME	University of Pune, Pune	18	18	No	No	N
PHARMACY	1st Shift	POST GRADUATE	PHARMACEUTICS	FULL TIME	University of Pune, Pune	18	18	No	No	N
PHARMACY	1st Shift	POST GRADUATE	PHARMACOLOGY	FULL TIME	University of Pune, Pune	18	18	No	No	N
PHARMACY	1st Shift	POST GRADUATE	QUALITY ASSURANCE TECHNIQUES	FULL TIME	University of Pune, Pune	18	18	No	No	N
PHARMACY	1st Shift	UNDER GRADUATE	PHARMACY	FULL TIME	University of Pune, Pune	60	60	No	No	N

- Validity of the course details may be verified at [www.aicte-india.org/departments/approvals](http://www.aicte-india.org/departments/approvals)

The above mentioned approval is subject to the condition that PADMASHRI DR.VITHALRAO VIKHE PATIL FOUNDATION'S COLLEGE OF PHARMACY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and subsequently upload and update the student/ faculty/ other data on portal as per the time schedule which will be intimated by AICTE.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Application Number: 1-2014180074\*

Page 2 of 3

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Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. Kuncheria P. Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Industrial Assurance Building  
2nd Floor, Nariman Road  
Mumbai - 400 020, Maharashtra
2. **The Director Of Technical Education,**  
Maharashtra
3. **The Registrar,**  
University of Pune, Pune
4. **The Principal / Director,**  
PADMASHRI DR.VITHALRAO VIKHE PATIL FOUNDATION'S COLLEGE OF PHARMACY  
P.O.M.I.D.C., VILAD-GHAT, AHMEDNAGAR-414111 (MAHARASHTRA),  
AHMEDNAGAR,AHMEDNAGAR,  
Maharashtra,414111
5. **The Secretary / Chairman,**  
PADMASHRI DR.VITHALRAO VIKHE PATIL FOUNDATION, AHMEDNAGAR.  
P.O.M.I.D.C., VILAD-GHAT, AHMEDNAGAR (MS),  
AHMEDNAGAR,AHMEDNAGAR,  
Maharashtra,414111
6. **Guard File(AICTE)**

Application Number: 1-2014180074\*

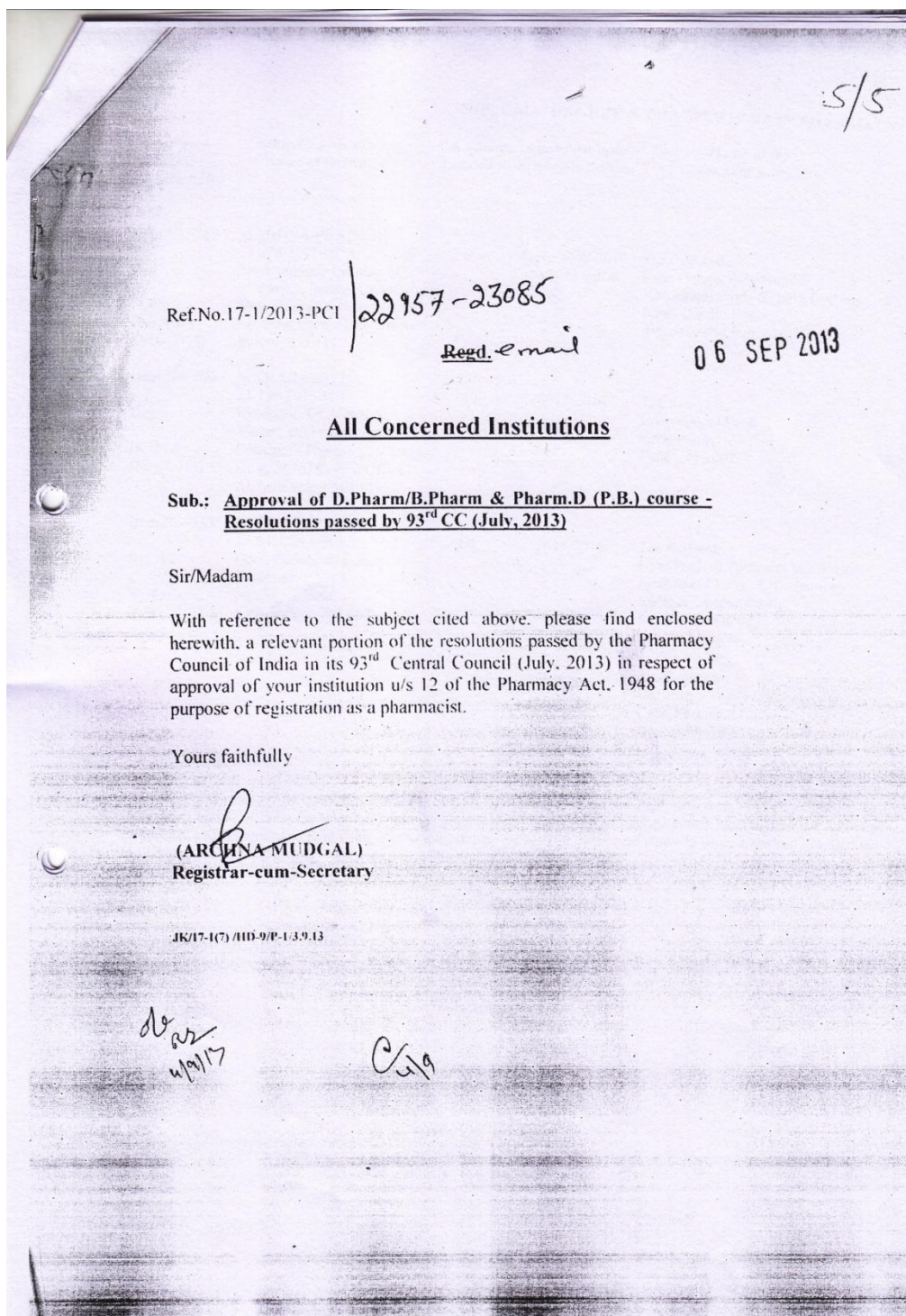
Page 3 of 3

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## DIPLOMA, DEGREE &amp; PHARM.D (P.B.) IN PHARMACY

Item No. / Course / Inspection No.	State/Course/ File No. Name of institutions	For adms. Limited to	Approved upto Academic Session	Name of the Examining Authority
Item No.-248	<b>MADHYA PRADESH</b> 32-878/2012-PCI	60	From 2009-2010 to 2013-2014	The Registrar, Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Airport. Bypass Road, Gandhi Nagar Bhopal - 462 036
Degree	Sri Aurobindo Institute of Pharmacy, Indore- Ujjain			
IR No.2 (Surprise) (July, 2013)	State Highway, Near MR- 10 Crossing Gram : Bhanvrasla Indore- 453 111			
Item No.-250	<b>MAHARASHTRA</b> 32-196/2013-PCI	60	2015-2016	The Registrar, University of Pune Ganeshkhind Pune - 416 007.
Degree	Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Vilad			
IR No.6 (July, 2013)	Ghat, M.I.D.C. Post Office, Ahmednagar - 414 111			
Item No.-253	<b>UTTAR PRADESH</b> 32-647/2012-PCI	60	2015-2016	The Registrar Uttar Pradesh Technical University, Institutes of Engg. & Technology Campus, Sitapur Road, Lucknow - 226 021 (upto 2010-2011)
Degree	Doon College of Education (Pharmacy), VPO			
IR No.3 (July, 2013)	Sunderpur Distt. Saharanpur - 247 662			
				The Registrar Mahamaya Technical University C-22, Sector-62 Nodia Gautam Buddha Nagar (From 2011-2012)

2) In pursuance of the provisions of sub-section (2) of section 12 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India declares the **Diploma, Degree** and **Pharm.D** (Post Baccalaureate) Examination in Pharmacy held by the above mentioned Examining Authorities, during the session mentioned above to be an approved examination for the purpose of qualifying for registration as a Pharmacist under the said Act."

(ARCHNA MUDGAL)  
Registrar-cum-Secretary