

# Innovation Ecosystem Manual



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## INNOVATION ECOSYSTEM POLICY

P.R. Patil Institute of Pharmacy, Talegaon (S.P.) has created an ecosystem to promote the innovation and knowledge transfer by establishing foundational structures and fostering a culture that supports research, entrepreneurship, and intellectual property protections.

- The Institute has established an Institution's Innovation Council (IIC) in accordance with the Ministry of Education's guidelines. The IIC's primary functions include organizing and engaging in seminars/conferences/workshops on research and innovation, intellectual property, and entrepreneurship.
- Through the IIC, the students are encouraged to participate in a range of research, start-ups, and idea/skill-development activities.
- The college regularly informs students and encourages participation in programs organized by Indian Knowledge System (IKS).
- We have a dedicated R&D Cell led by experienced faculty to oversee and guide research activities. The cell conducts various activities to boost the ecosystem.
- Conduct guest lectures, add on courses for budding entrepreneurs with successful entrepreneurs and industry experts.
- Encourage faculty and students to start with small research projects and participate in local or regional innovation competitions.
- Set up a basic laboratory with essential equipment to support initial research activities.  
Innovation Space: Designate a common area where students can brainstorm and work on innovative projects.
- Organize periodic workshops to educate students and faculty about intellectual property rights and the patent filing process.
- Regularly review and assess the impact of various programs and initiatives.

**The key entities driving research advancement at our college are:**

- Institution's Innovation Council (IIC)
- Research and Development (R&D) Cell
- Intellectual Property Rights (IPR) Cell
- Central Instrumentation Laboratory (CIL) and
- Indian Knowledge System (IKS)
- Research Empowering Atmosphere

**INSTITUTION INNOVATION COUNCIL (IIC)**

As per the guidelines from the Ministry of Education (MoE), the P.R. Patil Institute of Pharmacy, Talegaon (S.P.), Dist. Wardha, has established the Institution's Innovation Council IN 2022 (IIC ID: IC202220647) to systematically foster an innovation culture and start-up ecosystem in education institutions. The members of the council of IIC after reconstitution on 06/09/2024 are as:

| S. No. | Name of Member          | Member Type<br>(Teaching/Non-teaching/Student/<br>External Expert) | Key Role/ Position assigned in IIC                             |
|--------|-------------------------|--|--|
| 1.     | Dr. Vikrant L. Salode   | Professor/Teaching   | President  |
| 2.     | Dr. Nilesh B. Banarase  | Professor/Teaching   | Vice president/NIRF Coordinator                                |
| 3.     | Mr. Ashish R. Chaudhari | Asst. Professor/Teaching   | IPR Activity Coordinator, Innovation Activity Coordinator      |
| 4.     | Mr. Vivek G. Pete       | Asst. Professor/Teaching   | Start-up Activity Coordinator, Internship Activity Coordinator |
| 5.     | Ms. Gayatri K. Bahatkar | Asst. Professor/Teaching   | Convener, Social Media Coordinator                             |
| 6.     | Ms. Saloni Bhunte       | Student  | Internship Coordinator, Social Media Coordinator               |
| 7.     | Mr. Ayush Mhaisgawli    | Student  | Innovation Activity Coordinator, Start-up Activity Coordinator |

|    |                     |                 |  |
|----|---------------------|-----------------|--|
| 8. | Ms. Pooja Ikhar     | Student         | Internship Coordinator, IPR Activity Coordinator |
| 9. | Mr. Sanket Khandare | External Member | Start-up/Alumni Entrepreneur                     |

### About IIC

In 2018, the Ministry of Education (MoE) launched the Institutional Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster an innovation culture and start-up ecosystem in education institutions. The primary role of IIC is to engage a large number of faculty, students, and staff in various innovation and entrepreneurship-related activities such as ideation, problem solving, proof of concept development, design thinking, intellectual property rights, project handling and management at the pre-incubation/incubation stage, and so on, in order to establish and stabilize the innovation and entrepreneurship ecosystem in HEI.

### Functions

- To organize and participate in seminars/conferences/workshops related to research & innovation, IPR, and entrepreneurship.
- To encourage students to participate in a range of research, start-ups, and idea/skill-development activities both inside and outside of the college.
- To facilitate collaborations between colleges and industries for various research projects, industrial training, and industrial visits.
- To encourage students to participate on a regular basis in activities pertaining to social health and disease awareness, the use of modern technologies, and environmental conservation.
- To encourage faculty members and students to publish their work through research paper publications and patents.

## RESEARCH AND DEVELOPMENT (R&D) CELL

The P.R. Patil Institute of Pharmacy, Talegaon (S.P.), District- Wardha has established a Research and Development (R&D) cell to boost and promote scientific research among students and faculty members on 19/08/2019. The members of the R & D cell after reconstitution on 06/11/2023 are as follows-

| S. No. | Name of Member         | Designation           | Position assigned in R&D cell |
|--------|------------------------|-----------------------|-------------------------------|
| 1.     | Dr. Koshish B. Gabhane | Professor & Principal | Chairperson                   |
| 2.     | Dr. Vikrant L. Salode  | Professor             | Member                        |
| 3.     | Dr. Nilesh B. Banarase | Professor             | Member                        |
| 4.     | Ms. Samruddhi Khonde   | Assistant Professor   | Member                        |
| 5.     | Mr. Ashish Choudhary   | Assistant Professor   | Member                        |

### Functions

- To establish a research ecosystem within the college in order to foster a research culture and provide necessary infrastructure.
- To arrange talks, lectures, seminars, guest lectures, and workshops on ongoing pharmaceutical research.
- To encourage students to participate in various research and development related activities.
- To encourage faculty and students to conduct independent research projects at their colleges.
- To encourage the use of scientific method in research writing and raise awareness of plagiarism.

## INTELLECTUAL PROPERTY RIGHT (IPR) CELL

With reference to the minutes of the meeting of the Institution's Innovation Council (IIC) held on 08/11/2023, P.R. Patil Institute of Pharmacy, Talegaon (S.P.) has established the Intellectual Property Right Cell to promote and foster the culture of research and innovation among students and faculties in coordination with the IIC. The members of the R & D cell are as follows-

| S. No. | Name of Member            | Designation                    | Position assigned in IPR cell |
|--------|---------------------------|--------------------------------|-------------------------------|
| 1.     | Dr. Koshish B. Gabhane    | Prof. & Principal              | Chairperson                   |
| 2.     | Dr. Vikrant L. Salode     | Prof. (Pharm. Chemistry)       | Member                        |
| 3.     | Dr. Nilesh B. Banarase    | Prof. (Pharmacognosy)          | Member                        |
| 4.     | Mr. Chetan V. Ghulaxe     | Assoc. Prof. (Pharmaceutics)   | Member                        |
| 5.     | Mr. Kunal Takarkhede      | Asst. Prof. (IQAC Coordinator) | Member                        |
| 6.     | Miss. Gayatri K. Bahatkar | Asst. Prof. (IIC Convener)     | Member                        |

### Functions

- To raise awareness and provide guidance to the institute's faculty, staff, and students about the importance of Intellectual Property Rights.
- To transmit knowledge about patents, the Indian and international patent systems, and the aspects of registration.
- To inspire innovators to generate new concepts/ideas and support them in safeguarding their inventions.
- To motivate academic staff to participate in the process of intellectual assessment by evaluating research articles published in a variety of peer-reviewed journals.
- To conduct Workshops, Seminars and Training courses on IPR.

## **CENTRAL INSTRUMENTATION LABORATORY (CIL)**

P.R. Patil Institute of Pharmacy offers a state-of-the-art Central Instrument Laboratory (CIL) equipped with advanced instruments to support the academic and research requirements of D. Pharm, B.Pharm, and M.Pharm programs. The Central Instrumentation Facilities are regularly updated to align with the latest advancements in research, development, and technology.

### **Objectives of the CIL facility**

- To guide the use of advanced instruments for accurate data collection.
- To develop new analytical methods and techniques to optimize the use of instruments and help researchers explore innovative areas in pharmaceutical studies.
- To organize workshops for students, teachers, and professionals to learn about spectroscopic and analytical techniques.
- To offer access to advanced analytical instruments for researchers from academic institutions to support their research work.

### **List of the instruments available to the CIL**

- UV-Visible Spectrophotometer
- Digital Flame Photometer
- Digital Photofluorometer
- Digital Karl Fischer Titrator
- Moisture Balance
- Digital Dissolution Test Apparatus (6 Station)
- Digital Analytical Balance etc.

## INDIAN KNOWLEDGE SYSTEM (IKS)

Indian Knowledge Systems (IKS) is an innovative cell under the Ministry of Education (MoE) at AICTE, New Delhi. It is established to promote interdisciplinary research on all aspects of IKS, preserve and disseminate IKS for further research and societal applications. It will actively engage for spreading the rich heritage of our country and traditional knowledge in the field of Arts and literature, Agriculture, Basic Sciences, Engineering & Technology, Architecture, Management, Economics, etc.

India developed its knowledge system, tested it through practice, verified and improved it over thousands of years. As a result, the Indian Knowledge System is founded on the ‘wellbeing of all’.

It is based on a deep understanding of human being as well as of nature and entire existence. A knowledge system which ensures right understanding and clarity of living in harmony at all levels of human existence can be called a holistic and humane knowledge system. Many cultures and civilisations over millennia have tried to evolve such knowledge systems. The National Educational Policy 2020 (NEP 2020) recommends the incorporation of Indian Knowledge System (IKS) into the curriculum at all levels of education: “The heritage of ancient and eternal IKS and thought has been a guiding light for this Policy (Courtesy: IKS Initiative, GoI).

To support this initiative, our college has established various platforms to help both students and faculty learn about and stay updated on the Indian Knowledge System (IKS). To achieve these goals, we have implemented several measures. These include regularly updating our library with resources such as testimonials and newsletters published by the IKS division of the Ministry of Education, Government of India. Additionally, we encourage faculty members to enroll in various online courses (MOOCs) related to IKS to deepen their knowledge and expertise in this field.

## **RESEARCH EMPOWERING ATMOSPHERE**

To facilitate cutting-edge research, P.R. Patil Institute of Pharmacy offers access to state-of-the-art labs, sophisticated instruments, and resources. Workshops, seminars, and academic projects promote knowledge exchange and improve research abilities. The institution encourages students to investigate novel concepts and resolve practical issues in the fields of healthcare and pharmaceuticals. A robust research journal library and a strong emphasis on mentoring and guidance ensure that students and researchers can make the best use of available resources to achieve significant results. This environment fosters creativity, critical thinking, and a commitment to lifelong learning in the field of pharmacy.



## **P.R. PATIL Institute of Pharmacy, Talegaon (S.P.)**

**To emerge as a center of excellence for imparting quality and affordable pharmaceutical education to rural youth”**

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