

Annual Report 2024-25

INSTITUTION INNOVATION CELL

A) About IIC:-

• Vision on IIC-

To establish AISSMS College of Pharmacy as a hub of innovation and entrepreneurship, Fostering creativity and sustainable solutions for global healthcare challenges.

• Mission of IIC -

- To promote innovative thinking and entrepreneurship among students and faculty through Workshops, hackathons, and mentorship.
- To empower the AISSMS community to lead innovation and drive impactful change.

B) Key Functions of -

1) President of IIC-

- Chairs IIC meetings and ensures decisions are taken in line with MoE/IIC guidelines.
- Prepares annual activity plans for innovation, startup, and entrepreneurship promotion on campus.
- Represents the IIC in external forums, workshops, and review meetings.

2) Vice President of IIC-

- Assists the President in planning, organizing, and executing IIC activities.
- Takes charge of specific portfolios (e.g., innovation contests, startup cells, incubation support).
- Motivates students and faculty to participate in innovation challenges, hackathons, and entrepreneurship programs.

3) Convener-

- Ensures implementation of action plans decided by the President, Vice President, and IIC committee.
- Maintains records of IIC activities, minutes of meetings, student/faculty participation, and outcomes.



C) Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution-

Sr. No.	Particulars	No. of Faculty
1	Total No. of IIC Members	13
2	Total No. of IAs (Teaching/Non-Teaching and Students)	2
3	Total No. of faculty Mentors From Portal	5
4	Pre-Incubation Units	NA
5	Incubation Units	5
6	IP Facilitation Unit	5

D) Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in the promotion of Innovation and Entrepreneurship on the campus-

AISSMS College of Pharmacy successfully organized the "One Day National Level Research Presentation Competition, SYNAPSE 2024" in association with IQAC and SPPU for UG and PG students. The college also organized various guest lectures of expert personnel for students to gain knowledge about different topics. Every year the college arranges the Advanced Instrumental Handling programme for final year B.Pharm and M.Pharm students.

E) Achievements:-

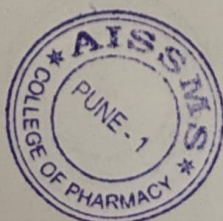
1) Number and different types of I&E and IPR activities conducted

• Synapse:

AISSMS College of Pharmacy successfully organized One Day National Level Research Presentation Competition "SYNAPSE 2024" in association with IQAC, SPPU on 20th September 2024. For PG and UG categories, 63 and 38 team entries, respectively, were received from pharmacy students of various colleges across India. Upon screening by the scientific committee, the selected teams presented their work. The presentations were evaluated by a team of experts from the pharmaceutical industry as well as academia. The winner and 2 runner-up teams under each category were awarded a certificate, trophy and cash prize.

• Best Project Award – Vigyan Chetana Competition

The *Vigyan Chetana Competition* for the Best Project Award was organized for B. Pharm Semester VIII students from 30th April 2025 to 7th May 2025. During the competition, students showcased their project work under five different subject categories. To acknowledge their efforts and achievements, certificates and medals were awarded to the best project in each subject category,



along with recognition for their respective guides. The prize distribution ceremony was held on 28th May 2025.

- **Avishkar internal screening activity:**

Avishkar is Maharashtra's prestigious state-level research competition organized by the Higher and Technical Education Department, Government of Maharashtra. It promotes innovation and research among students across universities, with categories like engineering, pharmacy, humanities, and pure sciences. The process begins at the institute level with a screening activity where student projects are evaluated and selected for advancement to university, zonal, and state rounds. Two teams from each category were selected from the institute for the competition.

- **No. of patents filed, published and granted:**

A total of 8 patents were filed in the academic year 2024-2025. Three previously filed patents were published and 1 patent was granted during this year.

- **In-house students' research competition:**

"In-house research project Competition" for Undergraduate research projects was organized. The activity provided a platform for the Undergraduate students to present their Research work and also encouraged a healthy competitive spirit. An expert from the industry was invited as a Judge for this competition. Recognition for excellent work was provided in the form of certificates and Cash prizes to the Winner and runner-up teams.

2) No. of students' & faculty ideas generated-

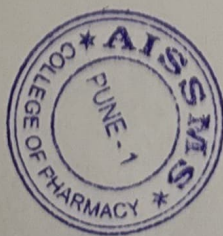
- a) Dr. Rahul Padalkar: 4
- b) Dr. Reshma Mirajkar: 2
- c) Mrs Amruta Avalaskar 1
- d) Dr. Tina Saldanha: 2

3) No. of students & faculty Innovation/prototypes developed-

- a) Dr Rahul Padalkar: 4
- b) Dr. Reshma Mirajkar :4
- c) Dr. Sachinkumar V. Tembhurne:-4
- d) Mrs Amruta Avalaskar-1
- e) Dr. Tina Saldanha: 1

4) No. of IPs generated, published, and granted-

A total of 8 patents were filed in the academic year 2024-2025. Three previously filed patents were published, and 1 patent was granted during this year.



5) Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus-

Synapse expenditure amount- INR 2.15 Lakh

6) Amount granted or fund supported to students & Faculty for IPR-

The Institute supported the Faculty and student patents with a total of Rs. 1,54,000 to cover expenses of drafting, filing, and examination of Patent applications.

F) Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum-

Sr. No.	Name of faculty guide	Innovation award received for guided projects (name of project, award, date, organizing institute)
1	Dr Rahul Padalkar	HEALOBETIC: An Innovative Dressing System for Diabetic Wound, 2nd Prize, 15th January 2025, Maharashtra Government.
2	Dr Rahul Padalkar	HEALOBETIC: An Innovative Dressing System for Diabetic Wound, 2nd Prize, 31st January 2025 , Association of Indian Universities.
3	Dr Rahul Padalkar	HEALOBETIC: An Innovative Dressing System for Diabetic Wound, 1st Prize, 28th March 2025, Amrutvahini College Of Pharmacy.
4	Dr. Reshma Mirajkar	Menoze : an innovative Toe ring formulated to reduce the primary dysmenorrhea and regularize the blood flow 1. First prize at 63 rd National Pharmacy Week Model Making competition 25th Jan 2025 2. First prize at Oral presentation NPW Ideathon Competition 20th Jan 2025
5	Dr. Reshma Mirajkar	Centaglow: A Novel Herbal anti-stretch marks Emulgel 1. First prize at Oral and poster presentation at METRxPLORE 2025 held at MET COP, Nashik 8 th March 2. 3 rd prize at amruth Pharamthon at Amrutvahini college of Pharmacy 28 th March 2025 3. First prize at Oral presentation Inhouse project competition at AISSMSCOP 20 Aug 2025
6.	Dr. Sachinkumar V. Tembhurne	Smart Dual-Sensing Film: Revolutionizing Diabetic Wound Care Awarded with First Prize Winner's Trophy, Certificate of Excellence and rewarded a Prize Money of Rs. 1.0 Lakh for further development and refinement of the project at the 4 th CiiA Innovation Exhibition at the Nehru Science centre Auditorium, Mumbai on 07.02.2025.
7	Dr. Sachinkumar V. Tembhurne	Revolutionizing Frostbite Care at High Altitudes: Natural Nano emulsified Gel. Awarded with 2 nd Runner-up Winner's Trophy, Certificate of Excellence and awarded a Prize Money of Rs. 25,000/- for



further development and refinement of the project at the 4th CiiA Innovation Exhibition at the Nehru Science centre Auditorium, Mumbai on 07.02.2025.

G) Highlight selected best Innovations & images with mention of inventor/innovation name-



First Prize in National Level Research Competition at Amrutvahini College of Pharmacy



Second Prize in Maharashtra state Inter-University Research Convention AAVISHKAR 2024-25



H) Highlight selected start-ups established by students/faculty, with mention of Founder /cofounder name - NA

I) List if any breakthrough Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation-

Sr. No.	Name of staff	1 Breakthrough technology developed
1	Dr Rahul Padalkar	A GPS-based emergency medical alert and response system for healthcare crises that connects the patient, ambulance and hospital.
2	Dr. Reshma Mirajkar	Menzee is an innovative Toe ring formulated to reduce primary dysmenorrhea and regularize the blood flow using nutraceuticals, vitamin E, in an Adhesive Toe ring that promotes the delivery of nutrients on the toe to the uterus, targeted to the uterine area, integrating Indian Knowledge System (IKS) principles with modern Novel Drug Delivery Systems (NDDS).
3	Dr. Reshma Mirajkar	Centaglow: A Novel Herbal anti-stretch marks Emulgel with goodness of Centella and Chia seeds INTEGRATING AYURVEDA AND MODERN MEDICINE
4	Dr. Sachinkumar V. Tembhurne	Smart Dual-Sensing Film: Revolutionizing Diabetic Wound Care, Real time visual monitoring of glucose and pH of wound as well as to promote wound healing
5	Mrs Amruta Avalaskar	A herbal anti acne peel off gel to be applied as dots on acne having perfect blend of healing agents from natural sources that are recommended in synthetic therapy

J) Participation of IIC-institute in various programs of Central and State Govt.

Highlighting specially for the schemes or programs-

- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation- NA
- Smart India Hackathon- 4 Teams Participated
- IDE Bootcamp - Nil
- YUKTI Innovation Challenge- Nil
- IIC-ATL Mentorship Linkage- Nil



K) Details of Social Media & Connections of IIC Institute -

- Facebook Link: <https://www.facebook.com/aissmscoppune/>
- Instagram Link: https://www.instagram.com/aissms_cop/
- Tweet Link: https://twitter.com/AISSMS_COP
- YouTube link: <https://www.youtube.com/channel/UC3RmWQTqU6DKcnA7vm9RqIw>
- LinkedIn: <http://aissmscop.com>

L) Testimonials of IIC members about the IIC activities-

Dr. Rahul R Padalkar-

The IIC has been instrumental in nurturing creative ideas, promoting interdisciplinary collaboration, and bridging the gap between academia and industry. Through workshops, hackathons, and mentorship programs, we empower our community to develop innovative solutions for real-world challenges. It is an honor to witness the transformative impact of IIC in shaping future innovators and leaders.

Mrs. Janhavi Deokute

The council has created a dynamic ecosystem where students and faculty collaborate seamlessly to turn ideas into impactful pharmaceutical solutions. Through initiatives like startup workshops, IPR awareness sessions, and internship opportunities, the IIC empowers our community to push boundaries in drug development and healthcare innovation. The dedication of our coordinators and the enthusiasm of our student members drive this vibrant platform, making AISSMS a hub for pioneering pharmaceutical advancements."

Dr. Reshma Mirajkar

The Innovation Cell has provided invaluable mentorship, helping us refine our idea from concept to a viable business plan. The workshops, awareness programmes, guidance lectures and problem-solving were highly relevant and equipped us with practical skills for innovation. I appreciate the support provided by the cell to develop innovative ideas and connect students and faculty with industry experts and resources.

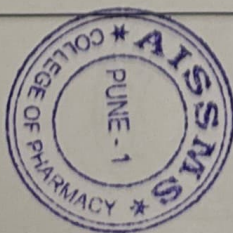
Dr. Santosh Gandhi

The Institution's Innovation Cell has engaged a large number of students and staff in innovation-related activities. IIC assisted students and faculty in developing prototypes from their innovative ideas, providing mentoring and guidance to innovators from industry experts and educating on and assisting with intellectual property rights and management. This has encouraged the development of skills such as design thinking, project management, and intellectual property (IP).

Dr. Tina Saldanha

Through IIC activities, we gain knowledge about various opportunities for supporting the innovation of faculty members. This year, we have received financial support from KAPILA of Rs. 44,800 to defray the cost of filing and examination of 8 of the faculty patents. The focus on Innovation has also encouraged novel ideas at the undergraduate level, with many teams in the in-house undergraduate research project competition presenting a tangible product as the end outcome.

Dr. Sachin Tembhurne



IIC helps the students in strong decision-making and problem-solving strategies, to develop leadership qualities.

Mrs. Shivani Rao

The Social Media Team is pleased to highlight the impactful activities of the Institution Innovation Cell (IIC) during 2024-25. The achievements of students and faculty, including award-winning projects such as *HEALOBETIC*, *Menozee*, *Centaglow*, and the *Smart Dual-Sensing Film*, have significantly enhanced the institute's online presence.

Through regular updates across various social media pages, the team successfully showcased competitions, workshops, and innovations, generating strong engagement and recognition from the academic and professional community. Moving forward, the team aims to further strengthen outreach through timely event coverage, interactive content, and greater collaboration with innovators.

Mr. Jitendra Gajbe

The Institute Innovation Council (IIC) fosters entrepreneurial spirit, offers mentoring, and provides opportunities for faculty and students to turn creative ideas into business ventures. It supports ideas through competitions, outreach initiatives, and expert sessions, encourages interdisciplinary cooperation and provides practical experience through industry partnerships and field trips.

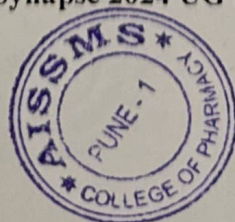
Mrs. Amruta N Avalaskar

The Institute Innovation Council (IIC) helps students bring into reality their research ideas and concepts and work upon the same irrespective of the chances of success or failure.

M) Images-



Winners of Synapse 2024 UG Category

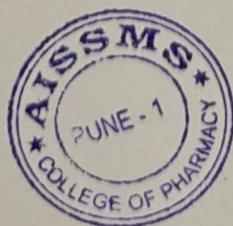




Winners of Synapse 2024 PG Category

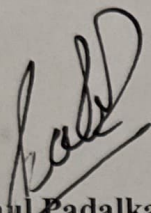


First Prize in National Level Research Competition at Amrutvahini College of Pharmacy.

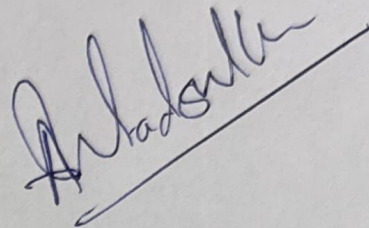
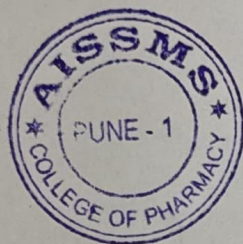


N) Contact Details-

- **Name of Institute:** AISSMS College of Pharmacy, Pune.
- **Address:** Kennedy Road, Near R.T.O., Pune- 411001.
- **Phone No:** (202) 26058204, 26058208
- **Email ID:** contact@aissmscop.com



Dr. Rahul Padalkar
IIC President



Dr. Ashwini R. Madgulkar
Principal
Principal
AISSMS College of Pharmacy
Pune- 1