



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)



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Institution's Innovation Council (IIC) ID – **IC202012981**

Annual Report 2022 - 2023

Marathwada Mitra Mandal's College of Pharmacy

Thergaon, Pune – 411033, Maharashtra

Institution's Innovation Council (MMCOP-IIC)

A. About IIC Institute

- **Vision**

To become vibrant pre-incubation center that caters transformation of versatile innovative ideas to scalable product and prepares the creative students to be entrepreneur ready team players.

- **Mission**

To encourage ideation, innovation and entrepreneurship amongst students and faculty and support them to convert the legitimate idea to product.

- **Journey of IIC established at the Institute**

Establishment of IIC @ MMCOP in calendar year 2018-2019.

Being a small Pharmacy college and COVID-19 pandemic, no significant activities were performed until IIC 4.0 Q3 (only online classes were organized till that time). Total 7 Activities were conducted in IIC 4.0 Q4 that leads to 1 star rating in 2021-2022.

In IIC 5 total 29 activities were conducted and submitted on the IIC portal (List is provided below).

B. Brief mention of key functionaries at the IIC Institute

- **MMCOP-IIC committee**

Sr. No.	Name of Member	Member Type (Teaching/ Nonteaching /Student/External Expert)	Key Role/ Position assigned in IIC
1	Prof. Manohar J. Patil	Teaching	President
2	Dr. Chandrashekhar Talathi	External Expert	Vice President, Incubation Centre
3	Dr. Ravindra V. Badhe	Teaching	Convener & Start-up Activity Coordinator
4	Dr. Prasad V. Kadam	Teaching	ARIIA Coordinator & NIRF Coordinator
5	Dr. Avinash R. Tekade	Teaching	Innovation Activity
6	Dr. Rahul H. Khiste	Teaching	Internship Activity Coordinator
7	Dr. Sachin Jagdale	Teaching	IPR Activity Coordinator
8	Mr. Shailendra Salvankar	Teaching	Social Media Coordinator
9	Dr. Babita Agarwal	Teaching	Member
10	Dr. Sanjay Nipanikar	External Expert	Expert from nearby Industry / Industry association / Ecosystem Enablers
11	Mr. Shrikant Kshirsagar	External Expert	Start-up / Alumni Entrepreneur
12	Dhanaji Suryawanshi	External Expert	Bank/Investor
13	Dr. Atul Kondaskar	External Expert	Patent Expert
14	Miss. Avantika Thombare	Student	Startup Coordinator
15	Mr. Jayesh Malu	Student	Internship Coordinator
16	Mr. Rushikesh Bandal	Student	Social Media Coordinator
17	Mr. Gajanan Kulkarni	Student	Innovation Cell
18	Mr. Aditya Bhavsar	Student	IPR/Technology Transfer Cell/Unit




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• **Members with functions**

President

- Prof. M. J. Patil, Principal - Nominating the Faculty representative, leading the IIC council and coordinate with MoE innovation cell for all the IIC activities in the institute.
- Ensuring Institution's participation in IIC calendar activity and Institution driven activities.
- Creating the ambience/ culture for the Innovation, Start-up and Entrepreneurial Ecosystem in MMCOP among the faculty members and Students.

Convener

- Dr. R. V. Badhe, Associate Professor, HOD Pharm Chem. and In charge of the Innovation Centre who guides the team of MMCOP-IIC towards the Vision of IIC.
- Coordinating with the IIC president for smooth conduction of activities.
- Coordinate and collect the inputs from all the members of the council and external members for better planning of IIC activities and effective delivery of results.

Members

- Supporting the development activities for a comprehensive ecosystem of innovation in efforts to boost entrepreneurship.
- Conducting the IIC, MIC and Self-driven activities to bring out the Innovation, Entrepreneurial and Start-up culture in the Institution.
- Attending the Innovation Ambassador training, supporting and mentoring the students and faculty of the IIC.

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

Category	Strength
Total No. of IIC Members	18 (8 faculty) + (5 students) + (5 External experts)
Total No. of IAs	03
Total No. of faculty Mentors From Portal	03
Pre-Incubation Units, If any	Yes
Incubation Units, If any	Yes – MCIII, Karvenagar, Pune
IP Facilitation Unit, If any	Yes

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

• **Sophisticated Instrumentation facilities for Pre-Incubation**

Sr. No.	Equipment	Make/Model	Price (Rs. In Lakhs)	Funding Agency
1	AAS	Perkin Elmer	13.23	RGSTC Govt. of Maharashtra
2	FTIR	Shimadzu	9.66	MMCOP
3	Spectrofluorometer	Perkin Elmer	12.46	AICTE, New Delhi



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4	UV Spectrophotometer	Shimadzu	3.67	MMCOP
5	HPLC with PDA Detector	Agilent	10.76	SPPU
6	HPLC with UV Detector	Cyberlab	6.06	MMCOP
7	HPLC with PDA Detector	Waters	29.73	MMCOP
8	DSC	Mettler Toledo	15.89	SPPU, Pune
9	High Pressure Homogenizer	Niro Saovi	16.23	DST, New Delhi
10	Lyophilizer	Christ	5.50	MMCOP
11	Spray Dryer	Labultima	7.41	AICTE, New Delhi
12	Probe Sonicator	Sonics	3.87	AICTE, New Delhi
13	Texture Analyzer	Brookfield AMETEK	7.08	SPPU, Pune
14	Viscometer	Brookfield AMETEK	2.02	SPPU, Pune
15	Dissolution Test Apparatus with auto sampler	Electrolab	Donated	Centaur Pharmaceuticals
16	Benchtop ultracentrifuge	Beckman Coulter	24.87	DST, New Delhi
17	Rotary Vacuum Evaporator	Buchi	4.61	AICTE, New Delhi
18	Autoanalyzer	Tulip	1.32	AICTE, New Delhi
19	Plethysmometer	V J Instruments	1.76	AICTE, New Delhi
20	Constant Temperature Incubator Shaker	Remi Instruments	1.82	SPPU, Pune
21	Dissolution Test Apparatus with Type V Disso Accessories	Lab India	1.77	SPPU, Pune
22	Diffusion Cell Apparatus	Orchid Scientific	1.75	SPPU, Pune
23	Homogenizer/Disperser	IKA India	1.46	SPPU, Pune
24	Stability Chamber	Remi Instruments	1.34	SPPU, Pune
25	Particle Size Analyzer (under Procurement)	Malvern analytical	29.91	AICTE, New Delhi

• **Infrastructure facilities for Pre-Incubation**

- ✓ Institute has AICTE approved Diploma, Degree, Masters (3 streams) and PhD center.
- ✓ 23 Wet Labs to do research and develop prototype
- ✓ Conference and Seminar rooms
- ✓ 4 Cubical spaces (100 Ft²) for startups
- ✓ Animal House and Industrial Pharmacy (all machines for pilot scale batches)
- ✓ Central Library Facility
- ✓ Wi-Fi based unlimited internet




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- ✓ MOU with MCIII center for smooth transition of startups to incubation
- ✓ Team of entrepreneur alumni to guide the students and startups
- ✓ MOU with renowned industries

• Entrepreneurship Development Cell

This committee believes internships as career development opportunity. Thus, it focuses on providing practical experience in a field or discipline. They are structured, short-term, supervised placements often focused around particular tasks or projects with defined timescales. An internship may be compensated, non-compensated or some time may be paid. The internship has to be meaningful and mutually beneficial to the intern and the organization. It is important that the objectives and the activities of the internship program are clearly defined and understood. Following are the intended objectives of internship training:

- ✓ Will expose students to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industry
- ✓ Provide possible opportunities to learn understand and sharpen the real time technical/managerial skills required for the job.
- ✓ Exposure to the current technological developments relevant to the subject area of training.
- ✓ Experience gained from the 'Industrial Internship' in classroom will be used in classroom discussions.
- ✓ Create conditions conducive to quest for knowledge and its applicability on the job.
- ✓ Learn to apply the technical knowledge in real industrial situations.
- ✓ Gain experience in writing technical reports/projects.
- ✓ Expose students to the Pharmacist responsibilities and ethics.
- ✓ Familiarize with various materials, processes, products and their applications along with relevant aspects of quality control.
- ✓ Promote academic, professional and/or personal development.
- ✓ Expose the students to future employers.
- ✓ Understand the social, economic and administrative considerations that influence the working environment of industrial organizations

• MoUs with Research Organizations & Pharmaceutical Industries

SR. NO.	INDUSTRY/RESEARCH ORGANISATION WITH WHICH MOU IS SIGNED	YEAR OF SIGNING & RENEWAL OF MOU	DURATION	ACTIVITIES UNDER MOU	LINK TO MOU
1.	Bharti Vidyapeeth, Poona college of pharmacy, Erandwane, Pune (MS) India	Sign. date- 21/08/2023	3 Years	Collaborative research Projects, Faculty and student Training, Consultancy	https://mmcop.edu.in/wp-content/uploads/2023/08/mou-mmcop-pcop.pdf




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3.	Rajaswa pharmaceuticals pvt. ltd. pune	Sign. Date-21/01/2023	3 Years	Consultancy and services industry visit and training	https://mmcop.edu.in/wpcontent/uploads/SIEC-Memorandum-MMCOP.pdf
4.	Passiflora laboratories pvt. ltd, pune	Sign. Date-21/01/2023	3 Years	Consultancy and services industry visit and training	https://mmcop.edu.in/wpcontent/uploads/SIEC-Memorandum-MMCOP.pdf
5.	Kite-ai technologies private limited, pune	Sign. Date-11/01/2023	3 Years	Training & career guidance on clinical trails & data analytics	https://mmcop.edu.in/wpcontent/uploads/SIEC-Memorandum-MMCOP.pdf
6.	SIEC Education Pvt. Ltd Pune Maharashtra	Sign. Date-20/07/2022	3 Years	Career Guidance, Consultancy Services for Higher Education at Abroad	https://mmcop.edu.in/wpcontent/uploads/SIEC-Memorandum-MMCOP.pdf
7.	Dr. D.Y Patil Dental College Hospital Pune Maharashtra	Sign. Date-30/06/ 2022	3 Years	Collaborative research Projects Regenerative Medicine Lab.	https://mmcop.edu.in/wpcontent/uploads/Collaborative research Projects.pdf
8.	University of Witwatersrand, Faculty of Health sciences, Johannesburg, South Africa	Sign. Date-15/06/2022	3 Years	Advanced Drug Delivery Platform	https://mmcop.edu.in/wpcontent/uploads/Advanced Drug Delivery Platform.pdf
9.	MCIII - Marathwada Mitramandal Centre for Invention innovation Incubation, Pune in collaboration with Tata Technologies Ltd. and Science Technology Park	Renew Date 01/10/2022 Sign. Date-06/09/2021	1 Years	Invention innovation Incubation For technology startups and entrepreneurs	https://mmcop.edu.in/wpcontent/uploads/MCIII - Marathwada Mitramandal .pdf
10.	Mprex Healthcare Pvt. Ltd. Pune, Maharashtra	Sign. Date-01/01/2021	3 Years	Consultancy & Services Industry Visit Collaborative research Projects	https://mmcop.edu.in/wpcontent/uploads/Mprex Healthcare .pdf
11.	Srujan Healthcare Pvt. Ltd. Pune, Maharashtra	Sign. Date-01/12/2020	3 Years	Collaborative research Projects Consultancy & Services Industry Training Industry Visit Placement	https://mmcop.edu.in/wpcontent/uploads/2021/07/SRUJANHEALTHCARE.pdf
12.	Matruj Ayurveda Pharmacy Pvt. Ltd. Pune, Maharashtra	Sign. Date-01/03/2020	3 Years	Placement Industry Training Industry Visit Consultancy & Services Collaborative research Projects	https://mmcop.edu.in/wpcontent/uploads/2021/07/MatrujAyurveda.pdf
13.	Rubicon Skill Development Pvt.Ltd. Pune, Maharashtra	Sign. Date-25/05/2021	2 Years	Employability Skill Development Programs	https://mmcop.edu.in/wpcontent/uploads/2021/07/Rubicon-Pvt.-Ltd..pdf




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14.	NuLife Pharmaceuticals, Pune, Maharashtra	Renew Date 01/11/2022 01/11/2019, 01/11/2016 Sign. Date 18/10/2013	3 Years	M. Pharm Dissertation Project Placement Industry Training Industry Visit Consultancy & Services Industry Training Industry Visit	https://mmcop.edu.in/wpcontent/uploads/2021/07/NulifePharmaceuticalsCompiled.pdf
15.	SG Phyto Pharma Pvt. Limited, Kolhapur. Maharashtra	Renew Date 01/11/2022, 01/11/2019, 01/11/2016 Sign. Date 18/10/2013	3 Years	Consultancy & Services Industry Visit Industry Training Collaborative research Projects	https://mmcop.edu.in/wpcontent/uploads/2021/07/SG-Phyto-PharmaPvt.-Ltd.-Compiled.pdf
16.	Reve Pharma, Nashik, Maharashtra	Renew Date 01/11/2022, 01/11/2019, 01/11/2016 Sign. Date - 18/10/2013	3 Years	M. Pharm Dissertation Project Consultancy & Services Industry Visit Industry Training	https://mmcop.edu.in/wp-content/uploads/2021/07/Reve-Pharma-Compiled.pdf
17.	MB Healthcare, Pune, Maharashtra	Renew Date 01/11/2022 01/11/2019 Sign. Date 01/11/2016	3 Years	Consultancy & Services Collaborative research Projects	https://mmcop.edu.in/wp-content/uploads/2021/07/MB-Healthcare-Compiled.pdf
18.	Chakan Life Sciences Pvt. Limited, Pune, Maharashtra	Renew Date 01/11/2022 01/11/2019 Sign. Date 01/11/2016	3 Years	Placement Consultancy & Services Industry Visit Industry Training Collaborative research Projects	https://mmcop.edu.in/wp-content/uploads/2021/07/Chakan-Life-Sciences-Pvt.-Ltd.-Compiled.pdf
19.	Ari Healthcare Pvt. Limited, Pune, Maharashtra	Renew Date- 01/07/2022, 01/07/2021, 01/07/2020, 08/07/2019 Sign. Date- 01/08/2013	2 Years	M. Pharm Dissertation Project Placement Consultancy & Services Industry Visit Collaborative research Projects	https://mmcop.edu.in/wp-content/uploads/2021/07/Ari-Health-care-compiled.pdf
20.	Callidus Research Laboratories Pvt. Ltd. Pune	Renew Date- 21/01/2022 Sign. Date 20/01/2019	3 Years	M. Pharm Dissertation Research Project Placement Consultancy & Services Industry Visit Collaborative research Projects	https://mmcop.edu.in/wp-content/uploads/2021/07/Callidus-Research-Pvt.-Ltd..pdf
21	Prado Pvt. Limited, Pune, Maharashtra	Renew Date- 01/11/2021, Sign. Date 01/11/2016	5 Years	Consultancy & Services Collaborative research Projects	https://mmcop.edu.in/wp-content/uploads/2021/07/Prado.pdf

- R & D and IPR committee**

R & D committee in the institute is working on motivating students to work on problem based research themes in their Masters and PhD work. They continuously search for innovation in the research work carried out. The IPR cell is the integral




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part of R & D committee and it focus on the promotion of awareness for IPR filing among students and faculty. Times to time various activities are conducted throughout the year to promote IPR filing. It includes Workshop, Hands on session for Search Tools, Guest lecture and guiding the patent filing process. R & D cell also work on MoEs KAPILA schemes.

E. Highlight Achievements (Narrative/Graphical/tabular representation) (From 2019 to 2023)

Sr. No.	Events	Count
1	Number and Different types of I&E and IPR activities Conducted	06
2	No. of student's & faculty ideas generated	18
3	No. of student's & faculty Innovation/prototypes developed	06
4	No. of IPs generated, published and granted	9 / 9 / 1
5	No. of Student & Faculty Start-ups / Ventures established	00
6	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	RS. 3 L+
7	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	RS. 1.5 L+
8	No. of Technology Transfer and Commercialization happened	00

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

1. Dr. Ravindra V. Badhe – is Professor of Pharmaceutical chemistry department. He was awarded a Design Patent which he presented at National PCI – Anveshan - 2023 competitions held at Vigyan Bhawan, New Delhi in March 2023. This Patent won best awarded patent prize in the event.
2. Mr. Jayesh Malu and Miss Divya Aswale participated in State Level Pharma Model Expo – 2023 organized by Dnyanvilas College of Pharmacy, Pune and won First prize including certificates, trophies and Rs. 5000/-.
3. One Faculty member (Dr. Ravindra Badhe) and two teams participated in National IDE Bootcamp organized by MoE and AICTE at COEP, Pune from 22/06/2023 to 26/06/2023. Both teams pitched their Ideas in front of Investors.




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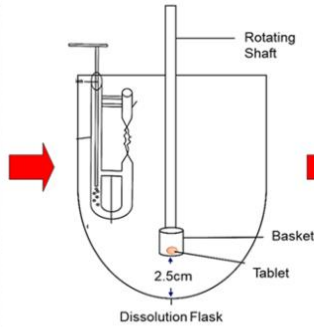
Institution's Innovation Council (IIC) ID – **IC202012981**

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

1. Dissorbptor by Dr. Avinash Tekade and team



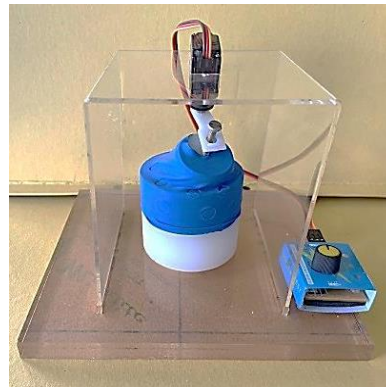
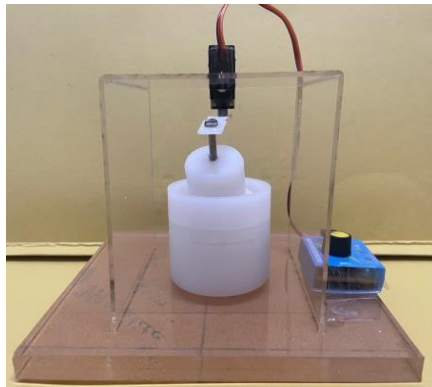
Dissorbptor device



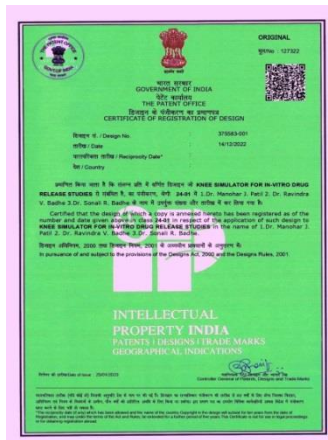
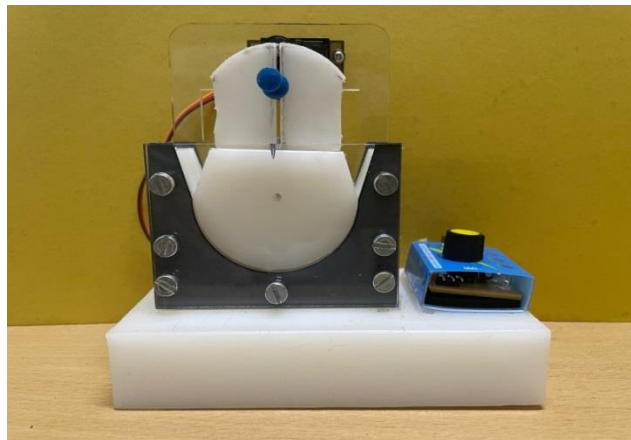
Device arrangement in dissolution apparatus



2. Hip Simulator by Dr. Ravindra V. Badhe



3. Knee Simulator by Dr. Ravindra V. Badhe



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H. Highlight selected start-ups established by students / faculties with mention of founder / co-founder name

- We are in the process of obtaining patents for the technologies. Soon, as a pre-incubation center we will be registering 1-2 startups with our students. For the faculty members; their product will be technology transferred to the establish companies or to student startups.

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

✓ **Dissosorbptor**

What is the product: 'Dissosorbptor' is a Simultaneous Drug Dissolution and Absorption apparatus

USP: Simultaneous dissolution and absorption studies; Device uses isolated animal tissue to get absorption; Easy to use inline tool

Applications: Laboratory dissolution and absorption studies; Pharmacokinetic absorption studies.

✓ **Hip Simulator**

What is the product: Hip Simulator is a Drug release and implant wear study apparatus

USP: An exact structural, functional and dimensional replica of the normal adult human hip to provide more realistic drug release and wear study data.

Applications: Injectable formulation drug release and hip implant (THR) shelf life determination.

✓ **Knee Simulator**

What is the product: Knee Simulator is a Drug release and implant wear study apparatus

USP: An exact structural, functional and dimensional replica of the normal adult human knee to provide more realistic drug release and wear study data.

Applications: Injectable formulation drug release and knee implant shelf life determination.




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J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

- MoE and AICTE sponsored IDE bootcamp – Participation
 - One faculty and 2 teams (4 students) participated and pitched their Ideas in front of investors
- Yukti 2.0 – Participation –
 - Total 7 prototypes at the TRL4 are participating in the competition
- ARIIA – participation and Rank
 - 2022 ARIIA (NIRF-Innovation ranking) certificate of recognition – Participated
- NISP
 - Adoption status - Adopted
 - Trained Faculty - Yes
 - Policy Formulation – Formulated
 - Policy Implementation – Implemented

K. Detail of Social Media & Connections of IIC institute

- ✓ Facebook - <https://m.facebook.com/profile.php?id=100057501757188>
- ✓ LinkedIn - <https://www.linkedin.com/in/marathwada-mitra-mandal-s-college-of-pharmacy-028201190/>

L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell



IIC internal Faculty member - Dr. Ravindra V. Badhe – I am very happy to testify for MMCOP-IIC. I am acting as a convener of the MMCOP-IIC. Our institute is Pharmacy College with compiled strength of around 350 students. I am very thrilled to mention that despite limited strength, odd offline exams; post COVID operations of IIC geared up and we performed 29 activities in IIC 5.0. We have participated in Yukti 2.0 with 7 prototypes and hope to get selected for second round of Yukti. 2.0. We were able to develop some good




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prototypes and product by the end of IIC 6.0 we are looking forward to pre-incubate at least 2 startups at MMCOP-IIC.

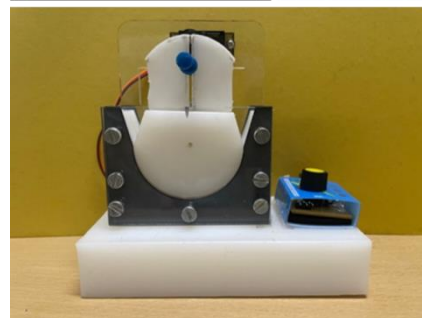
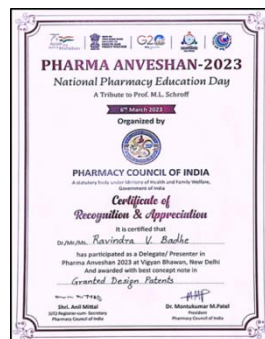


IIC Student member – Miss. Avantika Thombare, Student B. Pharm (2023 pass out batch). I was an IIC member and innovator. I have participated in many IIC activities as organizer as well as participant. I also participated in IDE Boot camp organized by AICTE and MoE at COEP, Pune. The

Institute supported us in developing the idea to prototype by means of guidance and even finance. Institute IIC is taking rigorous efforts to motivate students to come out with Ideas and think of entrepreneurship as career. After passing out from this institute, I will get some experience and planning to start my own startup. I will be in touch with my institute and IA for the same.

M. Images

- Presentation Prototype in IDE Boot camp, IPC Anveshan-2023 best patent award and design registration award and other certificates



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N. Activities Conducted by Marathwada Mitra Mandal's College of Pharmacy (IC-202012981) during IIC 5.0 (2022-2023)

Sr. No.	Activity	Quarter	Type
1	Inter/Intra Institutional Idea Competition / Challenge / Hackathon and Reward Best Ideas - Manage through YUKTI-NIR	I	IIC Calendar Activity
2	Exposure and field visit for problem identification	I	IIC Calendar Activity
3	Session on Problem Solving and Ideation Workshop	I	IIC Calendar Activity
4	Innovation Day	I	Celebration
5	Workshop on "Entrepreneurship and Innovation as Career Opportunity"	I	IIC Calendar Activity
6	Ganesh festival - Awareness and Motivational poster presentation and display	I	Self-driven activity
7	National Education Day	I	Celebrations
8	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR	II	IIC Calendar Activity
9	Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops etc.	II	IIC Calendar Activity
10	Workshop on Entrepreneurship Skill, Attitude and Behavior Development	II	IIC Calendar Activity
11	Session on Achieving Problem-Solution Fit & Product-Market Fit	II	IIC Calendar Activity
12	National Science Day	II	Celebrations
13	National Energy Conservation Day(India)	II	Celebrations
14	National Youth Day	II	Celebrations
15	National Pollution Control Day	II	Celebrations
16	Orientation Session on IIC 5.0 & Features	II	MIC driven Activity
17	National Startup Day	II	Celebrations
18	Pariksha pe charcha	II	Self-driven Activity
19	Creating YUKTI Innovation Repository & Participation in Innovation Challenge	III	MIC driven Activity
20	Celebrating India's presidency of the G20	III	MIC driven Activity
21	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/ Technology Transfer Centre such as Atal Incubation	III	IIC driven Activity



PRINCIPAL
Marathwada Mitra Mandal's
COLLEGE OF PHARMACY
Thergaon (Kalewadi), Pune-411 033



**MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)**



**INSTITUTION'S
INNOVATION
COUNCIL**
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	Centre etc		
22	National Technology Week Inaugural Address of Hon'ble Prime Minister of India at 10.00 AM, 11th May 2023	III	MIC driven Activity
23	Rangoli Competition - Startup India	III	Self-driven Activity
24	World earth Day – Tree plantation	III	Self-driven Activity
25	NEP ki Samajh Celebrating 3 years of Implementation of NEP 2020	IV	MIC driven Activity
26	World Environment Day	IV	Celebrations
27	Independence Day- Celebrating Aazadi Ka Amritkal	IV	Celebrations
28	Celebrate the 3rd Anniversary of the National Education Policy (NEP) 2020 and the 2nd edition of the Akhil Bhartiya Shiksha Samagam	IV	MIC driven Activity
29	Innovation, Design and Entrepreneurship (IDE) Bootcamp – Design week celebration	IV	Self-driven Activity

O. Patents Filed

SR. NO.	PATENT TITLE	NAME OF APPLICANT(S)	PATENT NO.	STATUS
1	Dispenser Cap (Design Patent)	Dr Manohar Patil Dr Ravindra Badhe Miss Avantika Thombare Miss Tejaswi Sonawane	390867-001	Published (Awaiting Examination)
2	Eye Pad Cooling Device (Design Patent)	Dr Manohar Patil Dr Ravindra Badhe Mr. Pratik Chavan	390868-001	Published (Awaiting Examination)
3	Knee Simulator For In-Vitro Drug Release Studies (Design Patent)	Dr Manohar Patil Dr Manohar Patil Dr Sonali Badhe	375583-001	Awarded
4	Hip Simulator For In-Vitro Drug Release Studies (Design Patent)	Dr Manohar Patil Dr Ravindra Badhe Dr Sonali Badhe	375584-001	Hearing done
5	A Stable Pharmaceutical Composition for Transdermal Drug Delivery	Dr Avinash Tekade Dr Manohar Patil Ms Gayatri Jawale	202321003464	Published (Awaiting Examination)
6	Induced Mesenchymal Stem Cell (MSC's) derived exosomes fortified Chitosan for treatment of burn wounds	Dr Avinash Sanap Dr Ramesh Bhonde Dr Ravindra Badhe	202321001036	Published (Awaiting Examination)



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		Dr Supriya Kheur Dr Avinash Kharat		
7	A dolutegravir sodium (Na) composed vaginal targeted self-emulsifying microemulsion drug delivery system (SMEDDS) gel	Dr Manohar Patil Ms Rajnandini Ahire Dr Mukesh Ratnaparkhi Dr Sachin Jagdale Mr Shailendra Salvankar	202221067833	Published (Awaiting Examination)
8	A Stable Solid Lipid Nanoparticles Loaded Nanogel for Topical Delivery	Dr Manohar Patil Dr Babita Agarwal Dr Avinash Tekade Dr Prasad Kadam Ms Shradha Shivde Mr Shubham Shinde	202221051823	Published (Awaiting Examination)
9	A stable pharmaceutical composition for transdermal drug delivery	Dr Manohar Patil Dr Avinash Tekade Mr Shekhar Holkar	202121000493	Published (Awaiting Examination)
10	An ophthalmic nano-emulsion in-situ gel of Ibuprofen	Dr Patil Manohar Dr Sachin Jagdale Ms Pranjali Saruk	202121000495	Published (Awaiting Examination)

P. Contact

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