



**Maratha Vidya Prasarak Samaj's
Karmaveer Adv. Baburao Ganpatrao Thakare
College of Engineering, Nashik**

**An Autonomous Institute Permanently Affiliated to
Savitribai Phule Pune University**

**INSTITUTION'S
INNOVATION
COUNCIL 7.0
Council Year 2024-25
Annual Report**

IIC Ministry of Education Initiative

Prepared by

**Dr. D. B. Uphade
Convener**

**Dr. S. B. Sonawane
Vice-President**

**Dr. V. C. Shewale
President**



Annual Report 2024-25

A. About KBTCOE_IIC

- **IIC ID:** IC201811219
- **Institute:** Maratha Vidya Prasarak Samaj's
Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering,
Udoji Maratha Boarding Campus, Gangapur Road, Nashik 422013.
- **Weblink:** <https://kbtcoe.org/institutions-innovation-council/>
- **Vision / Mission of IIC established at the Institute**
KBTCOE has established the Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC) with a vision to create a vibrant local innovation ecosystem, start-up supporting mechanisms, establish a function ecosystem for scouting ideas and pre-incubation of ideas, IPR filing and develop better cognitive ability for technology students. KBTCOE_IIC was established in 2018-19 and has set an ecosystem to implement activities through various cells such as Research & Development, Entrepreneurship, Innovation, Startup, Hackathon, NISP, Internship, etc.
- **Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.**

Faculty, staff members, and students are involved in the IIC from all departments. Similarly, interdisciplinary cells were established, like the Intellectual Property Rights Cell, Entrepreneurship, Startup, Innovation, etc. These cells conduct the activities. Industrial collaboration is established through the departments and cells, such as the NEC (Nashik Engineering Cluster), HAL, DRDO, NIMA, etc.





B. Brief mention of key functionaries at the KBTCOE_IIC Institute 2024-25



MARATHA VIDYA PRASARAK SAMAJ'S

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College of Engineering**

Permanently Affiliated to Savitribai Phule Pune University Vide Letter No. : CA/1542 & Approved by AICTE New Delhi - Vide Letter No. : 740-89-32 (E) ET/98 AISHE Code - C-41622



Ref: MVPS/KBTCOE/OFFICE/1050 / 2024-25

Date: 17/08/2024

The council meeting of Institution's Innovation Council (IIC), Maratha Vidya Prasarak Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik, was called by IIC President Dr. Vinod C. Shewale on 01/08/2024 to discuss the formulation and function of IIC for the academic year 2024-25 & to assign roles and responsibilities among newly joined council members as per the guidelines of Ministry of Education's Innovation cell.

As per the decision of the competent authority, the following members will be part of IIC;

Sr	Name of Member	Member Type (Teaching / Non-teaching / Student / External)	Key Role / Position in IIC
1.	Dr. V. C. Shewale	Teaching	President
2.	Dr. S. B. Sonawane	Teaching	Vice-President, IPR Coordinator
3.	Dr. D. B. Uphade	Teaching	Convener
4.	Dr. A. A. Kapse	Teaching	Entrepreneurship, Startup, Innovation
5.	Dr. S. P. Jadhav	Teaching	Hackathon Coordinator
6.	Dr. A. R. Kulkarni	Teaching	NISP Coordinator
7.	Dr. U. V. Patil	Teaching	Internship Activity Coordinator
8.	Dr. S. P. Mogal	Teaching	NIRF Coordinator
9.	Ms. S. A. Dhumane	Teaching	ARIIA Coordinator
10.	Mr. Pritesh Aher	Teaching	Social Media
11.	Dr. Mrudula Bele	External	IPR
12.	Mr. Pushkaraj Narendra Salunke	External	Start-up, Entrepreneur
13.	Mr. Om Sunil Birari	Student	ED, Coordinator
14.	Mr. Raksha Rajesh Pawar	Student	ED Member
15.	Ms. Suhani Prakash Patil	Student	ED Member
16.	Mr. Avinash Shankar Ugale	Student	IPR Coordinator
17.	Mr. Akash Tandale	Student	IPR Member
18.	Mr. Devashis Bhalachandra Shinde	Student	NISP Coordinator
19.	Ms. Rutuja Vilasrao Jadhav	Student	NISP Member
20.	Mr. Shiv Vijay Wagh	Student	NISP Member
21.	Ms. Tejal Nitin Pawar	Student	NISP Member
22.	Mr. Vedant Atul Vaidya	Student	NISP Member
23.	Mr. Kalprushna Bhamare	Student	Social Media Coordinator
24.	Ms. Damini Sanjay Bhamare	Student	Social Media Member
25.	Mr. Shivam Shinde	Student	Social Media Member

The council members discussed about the activities (IIC calendar, Celebration and Self-Driven) and features of IIC portal. The council members also discussed about collaborations within and outside the institution to accelerate the activities of IIC. The council also deliberated on quarterly action plan in



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MARATHA VIDYA PRASARAK SAMAJ'S
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synchronisation with activities and initiatives of other departments, centres and facilities in the Institute working towards promoting IPR, Innovation, Entrepreneurship and Start up.

The council unanimously decided to carry out all the IIC activities in regular basis throughout the year and meet regularly in beginning of every quarter to review the progress made in previous quarter and also to plan for upcoming quarter. The council has agreed to convene next meeting tentatively on Friday 01/11/2024.

Place: Nashik



Dr. S. R. Devane

Principal
PRINCIPAL

M.V.P.'s K.B.T. College of Engineering
Udoji Maratha Boarding Campus
Gangapur Road, Nashik-422 013.

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Ph : + 91 253-2571439, 2582891, 2314319, Fax : 0253-2317016 Email : principal@kbtcoe.org Website : www.kbtcoe.org

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

- Total No. of IIC Members 25
- Total No. of IAs 09
- Total No. of faculty Mentors 09
- IP Facilitation Unit Pradnya Cell, MVP Samaj, Nashik
<https://mvp.edu.in/mvpsite/pradnya/>
- Pre-Incubation Units ED Cell
- Incubation Units ED Cell





Activities Conducted

Activities	Q1	Q2	Q3	Q4	Total
<i>Month/Year</i>	<i>Sep-Nov</i>	<i>Dec-Feb</i>	<i>Mar-May</i>	<i>Jun-Aug</i>	<i>Year</i>
Calendar Activities	4	1	2	2	9
MIC Driven Activities	1	1	4	2	8
Self-Driven Activities	7	6	2	2	17
Celebration Activities	1	2	2	2	7
Total	13	10	10	8	41

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

Start-up Club
ED Cell
IPR Cell

<https://kbtcoe.org/ed-cell/ed-start-up-cell/>
<https://aura-ecell.vercel.app/>
Research Committee – MVPS's KBTCE

E. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted **05**
 1. Student achievement in MSIC (Maharashtra Student Innovation Challenge Competition) State Level
 2. Avishkar Institute Level
 3. Smart India Hackathon Institute Level
 4. ISHRAE Zonal Level
 5. Project Competition National Level

Sr. No.	Name of Project	Department	Students
1.	Design of Solar-Powered Two-Wheeler Electric Charging System	Mechanical Engineering	Mr. Vedant Pingale Mr. Chaitanya Thakare Mr. Rohit Mahajan Mr. Kunal Patil
2.	PLC & SCADA for Agriculture	Instrumentation & Control Engineering	Mr. Prashant Shinde Mr. Harshal Udamale Mr. Vaibhav Tidake
3.	Smart India Hackathon 2024.	KBTCOE	10th Sept 2024.
4.	Project exhibition cum competition - Innovate X - Celebrating Innovation and Excellence: Runner-up Prize of Rs. 10,000/- Zonal Level Competition. 14 th Feb 2025.	Mechanical Engineering	Mr. Raj Dongare, Mr. Abhishek Patil Mr. Prathmesh Khelukar Mr. Kshitij Chaudhary
5.	Autonomous Farming and Surveillance Agribot in Adjacent Boundary Won Third Prize of Rs. 5,000/- in the National Level Project Competition organised by Dr. V. B. Kolte College of Engineering, Malkapur.	Mechanical Engineering	Mr. Lalit Patil, Mr. Shlok Gulve and Mr. Yash Salve. 05th April 2025.



Student achievement in MSIC (Maharashtra Student Innovation Challenge Competition)



Third Prize of Rs. 5,000/- in the National Level Project Competition organised by Dr. V. B. Kolte College of Engineering, Malkapur on 05th Apr 2025.



Smart India Hackathon 2024: 10th Sept 2024.





Project exhibition cum competition - Innovate X - Celebrating Innovation and Excellence: Runner-up Prize of Rs. 10,000/- Zonal Level Competition, 14/02/2025.

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Rupees <u>Ten Thousand Only</u>			
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Project exhibition cum competition - Innovate X - Celebrating Innovation and Excellence: Runner-up Prize of Rs. 10,000/- Zonal Level Competition, 14/02/2025.

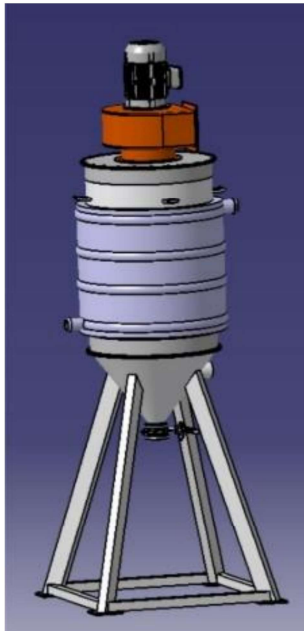
• No. of IPs generated, published and granted

07

Sr. No.	Name of Patent	Date of Publication	Inventors	Number
1.	Cotton bid removal	19/03/2024	Dr.S.Y.Pawar, Prof M.A.Ahire, Prof.J.A.Kute, Mr.N.S.Gaikwad, Mr.R.B.Jagtap, Dr.V.A.Kolhe, Dr.S.J.Suryawanshi,M.B.Shirke	-
2.	Robotic Arm	03/06/2024	Dr. Parvat Bhagsen Jagannath Dr. Patil Yogesh Punjaram Mr. Nikam Satish Dhanaraj Mr. Pandit Santosh Raosaheb Mr. Lukare Santosh Balu Mr. Ahirrao Vikas Arun	Design No. 418931-001
3.	Industrial Dust Filter and Collector	30/07/2024	Dr. Pravin Dinkar Nemade, Dr. Krishnadeo Tayappa Patil Dr. Madhura Chetan Aher, Ms. Kaveri Ravindra Sonawane	417383-001
4.	Industrial Dust Filter and Collector	30/07/2024	Dr. Pravin Dinkar Nemade Dr. Krishnadeo Tayappa Patil Dr. Madhura Chetan Aher Ms. Kaveri Ravindra Sonawane	Design No. 417383-001
5.	Water Purifier-cum-Dispenser	14/12/2024	Dr. Pravin Dinkar Nemade Manoj Bhila Patil Anuja Kiran Ugale Savita Anil Thombare	Design No. : 440636-001
6.	IoT Based Strain Gauge Machine	04/02/2025	Dr. Pravin Dinkar Nemade Sidhhi Babasaheb Wagh Tejas Anil Bedis Dr. K. T. Patil Rohan Chandrakant Patil	Design No. 441952-001
7.	A Self-regulated Gear Shifting System	02/05/2025	Awate Swapnil Prakash, Ghughe Bhushan Namdev, Avhad Prasad Dnyaneshwar, Borse Girish Nandkishor	Journal No. 18 (P 310)

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	Design Number:	417383-001
	Filing Date:	19/05/2024 21:07:52
	Article Name:	INDUSTRIAL DUST FILTER AND COLLECTOR
	Class:	15-99-MISCELLANEOUS
	Journal Number:	31/2024
	Journal Date:	02/08/2024 00:00:00

Applicant Detail		
Sl. No.	APPLICANT NAME	APPLICANT ADDRESS
1	Dr. Pravin Dinkar Nemade	Department of Civil Engineering, MVPS'S KBT College of Engineering, Nashik-422013
2	Dr. Krishnadeo Tayappa Patil	Department of Civil Engineering, MVPS'S KBT College of Engineering, Nashik-422013
3	Dr. Madhura Chetan Aher	Department of Civil Engineering, MVPS'S KBT College of Engineering, Nashik-422013
4	Ms. Kaveri Ravindra Sonawane	Department of Civil Engineering, MVPS'S KBT College of Engineering, Nashik-422013

- No. of Student & Faculty Start-ups/Ventures established. **01**
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus **Rs. 66,500/-**
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR **Rs. 85,891/-**

F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum [Profile of few faculties with 2-3 line of their achievements]

a. Mr. P. V. Joshi Best Innovative Professor MVP Samaj, Nashik.



Mr. Prasad V. Joshi was acknowledged with the Best Innovative Professor Award by MVP SAMAJ'S KBTCOE, NASHIK, for impactful academic contributions and innovative pedagogy on 05th Sept 2024.



Dr. Patil Krishnadeo Tayappa has been appreciated by MVP Samaj Sanstha with the Best Innovative Professor Award, for his remarkable work in rainwater harvesting in urban areas like Nashik city and outside also where water conservation is crucial. His innovative approaches, including modified recharge pits, recharge shafts, and underground storage systems, are effective techniques for sustainable water management. His commitment to pushing the boundaries of innovation in rainwater harvesting will likely continue to benefit Nashik city and beyond. His work serves as an inspiration for others to explore innovative solutions for challenges in the field of Water Conservation.

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

Indian Air Force: Life-cycle improvement disc project: Research paper publication based on results of consultancy work carried out at our institute in association with the Indian Air Force. DRDO and Air Officer Commanding, New Delhi has already provided a life extension of 125 hrs for hydro-booster based on our results and recommendations to the IAF.

Nano-technology; Composite Materials.

H. 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
<https://kbtcoe.org/wp-content/uploads/2020/09/NISP-Version-2-30-09.pdf>
- Smart India Hackathon etc.
<https://kbtcoe.org/college-at-a-glance-2/internal-hackathon-sih-2022/>
- YUKTI Innovation Challenge

I. Detail of Social Media & Connections of IIC Institute

Prof. Pritesh Aher is the coordinator of Social Media.

Sr. No.	Social Media	Link
1.	Website	www.kbtcoe.org
2.	Facebook	https://www.facebook.com/mvpkbtcollege/
3.	YouTube	https://www.youtube.com/@mvpkbtcoe
4.	Instragram	https://www.instagram.com/mvpkbtcoe/?hl=en
5.	X	https://x.com/mvpkbtcoe

J. Images





















K. Contacts:

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