

SHRI BALASAHEB MANE SHIKSHAN PRASARAK MANDAL'S

ASHOKRAO MANE GROUP OF INSTITUTIONS

AN AUTONOMOUS INSTITUTE



Institute Innovation Council (IIC) Annual Report (2024-25)

Introduction

The Institution's Innovation Council (IIC) at Ashokrao Mane Group of Institutes (IICIC202216260) has been established under the guidance of the Ministry of Education's Innovation Cell (MIC), Government of India. The primary objective of IIC is to create a culture of innovation and entrepreneurship within the institute by supporting students and faculty in transforming their ideas into viable prototypes and business ventures.

IIC- serves as a central hub for nurturing technological innovations, providing mentorship, and facilitating interactions with industry experts. It fosters a dynamic ecosystem where budding entrepreneurs receive the necessary resources and guidance to scale their ventures successfully.

Vision

To build a vibrant innovation and entrepreneurship ecosystem at AMGOI that nurtures creativity, fosters start-up culture, and accelerates the development of technology-driven solutions for societal and industrial needs.

Mission

1. To create a supportive environment for students and faculty to explore, ideate, and innovate in emerging fields of science and technology.
2. To establish strong linkages with industry, research organizations, incubators, and start-ups for collaborative innovation and knowledge exchange.
3. To mentor and handhold budding entrepreneurs by providing access to infrastructure, funding opportunities, and expert guidance.
4. To promote innovation-led research and product development in priority areas such as AgriTech, HealthTech, Green Energy, and Digital Technologies.
5. To develop socially responsible innovators and entrepreneurs capable of contributing to national development and global competitiveness.

Brief mention of key functionaries at the IIC Institute

	<p>Dr. Mrs. Sangeeta R. Chougule M.E. Ph.D. (Electronics Engineering), Director, Ashokrao Mane Group of Institutions, Vathar director@amgoi.edu.in</p>	<p style="text-align: center;">Head, IIC, AMGOI</p>
	<p>Prof. P. B. Ghewari Campus Director M.E. Electronics, PhD (Scholar) Ashokrao Mane Group of Institutions, Vathar pbg@amgoi.edu.in</p>	<p style="text-align: center;">Hon. Member, IIC, AMGOI</p>
	<p>Dr. C. R. Dongarsane Head of Department, Electronics & Computer Engineering Ashokrao Mane Group of Institutions, Vathar crd@amgoi.edu.in</p>	<p style="text-align: center;">President, IIC, AMGOI</p>
	<p>Dr. Sachin G. Chonde Asst. Professor B.Sc., M.Sc, SET, GATE, Ph.D sgc@amgoi.edu.in</p>	<p style="text-align: center;">Vice President, IIC, AMGOI</p>

	<p>Prof. Shinde Vasudev Dhondiram Professor, Ph.D. ,I.I.T., Mumbai</p>	<p>External Member</p>
	<p>Mr. Sandeep Chandrakiran Kulkarni Business Mentor & Consultant</p>	<p>External Member</p>
	<p>Dr. J. M. Shinde Head of Department Civil Engineering Department Ashokrao Mane Group of Institution, Vathar jms@amgoi.edu.in</p>	<p>Convener, IIC, AMGOI</p>
	<p>Dr. Seema S. Patil Dean, Academics PhD in Electronics Ashokrao Mane Group of Institution, Vathar seemap@amgoi.edu.in</p>	<p>Innovation Activity Coordinator, IIC, AMGOI</p>

	<p>Mr. Suraj Shivaji Redekar Head of the Department, Assistant Professor M.Tech (CSE) Ashokrao Mane Group of Institution, Vathar hodcse@amgoi.edu.in, ssr@amgoi.edu.in</p>	<p>Start-up Activity Coordinator, IIC, AMGOI</p>
	<p>Dr. Mrs. V. K. Thombare Asst. Professor PhD Electrical and Electrical Engineering Ashokrao Mane Group of Institution, Vathar vkt@amgoi.edu.in</p>	<p>IPR Activity Coordinator, IIC, AMGOI</p>
	<p>Mr. Sarvajeet A. Bhosale Asst. Professor M.E. Electronics, PhD(Scholar) Ashokrao Mane Group of Institution, Vathar sab@amgoi.edu.in</p>	<p>Internship And Project Activity Co-ordinator, IIC, AMGOI</p>
	<p>Dr. Amit Subhash Shelake Assistant Professor M. E. Design, Ph. D. Ashokrao Mane Group of Institution, Vathar amits@amgoi.edu.in, shelakeamit111@gmail.com</p>	<p>NAAC-NBA- IQAC Coordinator, IIC, AMGOI</p>

Summery

- Number of IIC calendar activities: **17**
- Number of Patents published/granted: **12**
- Number of Journal Publications:**48**
- Number of Conference Publications:**14**

Students Club for Innovation, Entrepreneurship and start-up promotional activities

- Number of Innovative Ideas at Campus:**12**
- Student Innovation Ambassadors:**4**
- E-cell faculty team :**7**
- Faculty- Innovation Ambassadors :**10**
- Registered Smart Hackathon 2025- **C11010**

Activities Conducted Year 2024 -25

Sr. No	Category	Event	Student Benefitted	Conducted Date	Conducted by	Location	Funded By
Quarter - I							
1	Expert talk on Successful Entrepreneur	From Idea to Impact – Motivational Session by Successful Entrepreneur/Start-up Founder. Organised by CSE department in association with IIC	Students 110 Faculty 04	16-10-2024	Mechanical Electrical Civil	Seminar Hall	AMGOI College
2	Expert Session on innovation and start-up	My Story - Motivational Session by Successful Innovators. Organised by IIC and Innovation & Start-up cell	Students 114 Faculty 06	13-11-2024	TY CSE Electrical E&TC	Seminar Hall	AMGOI College
Quarter - II							
3	IDEATHON 2K25	Innovation & Entrepreneurship	51	28-02-2025	E & TC CSE Electrical Mechanical Civil MBA	Seminar Hall	AMGOI College
Quarter - III							
4	International women's Day Celebration 2025	"Celebrating Women Legends: Strength, Inspiration, and Change." "Empowering Women through Safety"	20	07-03-2025	ICC Cell	Central Corridor	AMGOI College

5	IP UTSAV	IPR Awareness	100	21-03-2025	Institute Innovation Council	Respective Department	AMGOI College
6	IPR & Patents: Fuelling Research and Start-ups	Intellectual Property Awareness & Entrepreneurship	45	05-04-2025	Institute Innovation Council	Respective Department	AMGOI College
7	Master class on Patents and Design Registration	Design Patent Registration	140	22-04-2025	Institute Innovation Council	Respective Department	AMGOI College
8	Copy That! Copyrights Uncovered: Masterclass on Copyrights	Copyright Awareness and Registration	90	23-04-2025	Institute Innovation Council	Respective Department	AMGOI College
9	Mark the Spot: Trademarks Talk: Masterclass on Trademarks and Geographical Indications	Intellectual Property Rights Awareness - Trademarks and GIs	92	24-04-2025	Institute Innovation Council	Respective Department	AMGOI College
10	Significance of IP Protection and Commercialization	Intellectual Property Rights Awareness	83	25-04-2025	Institute Innovation Council	Respective Department	AMGOI College

11	Journey from Start up to Successful Entrepreneur	Workshop on "Entrepreneurship and Innovation as Carrier Opportunity"	55	25-04-2025	E & TC	E & TC Dept.	AMGOI College
12	Patent to Product (Srujanta Se Samruddhi)	MIC Driven Activity	25	26-04-2025	Institute Innovation Council	Respective Department	AMGOI College
13	CIRCUITRONIX (On the spot Project Making)	Innovation and Technology	74	15-05-2025	Institute Innovation Council and Department of E&TC	Department of E&TC Engineering	AMGOI College
14	2k25 - A National Level Technical Symposium	Innovation and Technology	877	15-05-2025	Institute Innovation Council	Seminar Hall	AMGOI College
15	Building YUKTI Innovation Repositories in IIC Institutions	Driven Activity - Quarter III - IIC	20 students and 25 staff	20-05-2025	Institution's Innovation Council	Respective Department	AMGOI College
Quarter - IV							
16	Student Development Program – TechCon 2025 "Advanced Concrete Testing & Smart Surveying Solutions"	Driven Activity - Quarter III - IIC	20 students and 25 staff	5Days (13th June 2025-17th June 2025)	Civil Engineering	Seminar Hall	AMGOI College
17	Next-Gen Manufacturing: Embracing Industry 4.0	Manufacturing and Industry 4.0	249 includes Staff, PG scholar and external industry participants	6 Days (25-08-2025 To 30-08-2025)	Department of E&TC,E&C and Industry Relations Cell.	Boardroom	AICTE-ATL

Some IIC Activities:

Shri Balasaheb Mane Group of Institutions Private Limited's
ASHOKRAO MANE GROUP OF INSTITUTIONS
 Vathar, Tarf Vadgaon, Tal. Halkarnagale, Dist. Kolhapur - 416 112 (MS)

THE DEPARTMENT OF ELECTRICAL ENGINEERING
 Organises One-Day Workshop on
IPR & PATENTS: FUELING RESEARCH AND STARTUPS

In association with IIC and R&D cell

Resource Person
Mr. Chaitanya Nagmal
 Founder: Chaitanya Research & Tesseraact IT Solutions.

05th April, 2025 02:00pm onwards
 Venue: AMGOI Seminar Hall

ASHOKRAO MANE GROUP
 ENGINEERING PHARMACY BAMS MBA B.E.D POLYTECHNIC ITI DHM
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MGOI Engineering(B...
 Ministry of Education
INNOVATION C...
 Ministry of Education
 Innovation Cell

For IIC council members, Deans, Hf faculty, students, all innovators, and other stakeholders: Join on Tuesday, 30th M 2025, from 11:30 AM 12:30 PM. Livestream Link: <https://www.youtube.com/watch?v=...> & Direct Session Link: <https://www.youtube.com/watch?v=...>

Dr. Harishchandra S. D. at Thakur Fisheries Business Coll. Chembur
 Dr. Ranika K. Kulkarni at Geema Dental College and H...
 Dr. T. Shivraj at Ravi Gulabani Engineering & Product



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COMPUTER SCIENCE & ENGINEERING DEPARTMENT
 In Association with
INSTITUTIONS INNOVATION COUNCIL (IIC)
 IC202216260

Organises
 Expert Talk on
SUCCESSFUL ENTREPRENEUR

Wednesday
16th October 2024
11.30 AM
 Seminar Hall

Mr. Harishchandra Dhotre
 Proprietor, M. S. Dynamic Metal Works, Kolhapur
 President, Manufacturers Association, Kolhapur
 Trustee, Santhi Seva Trust, Kolhapur

Prof. S. S. Redekar HOD CSE
 Prof. [Dr.] H. V. Shete President-IC, Dean ICS
 Prof. P. B. Ghewari Vice-Principals
 Dr. A. V. Deshmukh Director

ASHOKRAO MANE GROUP
 ENGINEERING PHARMACY BAMS MBA B.E.D POLYTECHNIC ITI DHM
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• No. of IP generated, published and granted

Sr No	Name of Faculty/ Student	Patent Application No.	Patent title	Status of Patent (Granted/Filed)	Date of Patent (Granted /Filed)	Design or utility patent
1	Dr. Sarade Shrenik Suresh	549955	Development of Eight Different Shaped Element Massive Mimo Antenna Using Defected Ground Structure and Parasitic Elements for Wideband Application	Granted	10/09/2021	Utility
2	Dr Seema Suhas Patil	559517	A Variable Rate Spraying System and A Method for Operating A Variable Rate Spraying System	Granted	03/02/2025	Utility
3	1. Dr. Digvijay Jotiram Pawar, 2.Mrs. D. M. Mali	418245-001	Smart Multifunctional Baby Toy	Granted	16/07/2024	Design
4	Dr. Sarade Shrenik Suresh	423039-001	Dual-Band Mimo Antenna	Granted	17/10/2024	Design
5	1. Mrs. Rohini Prashant Jadhav 2. Mr. Suhas Sadashiv Kibile1	430991-001	Automatic Rotatable and Self Cleaning Solar Panel	Granted	28/11/2024	Design
6	1. Mr. Rahul Sukhadeo Pukale 2. Dr Vinaya Thombare (Chavan)	43678-001	Solar-Powered Spray Pump for Agricultural and Domestic Purposes	Granted	13/01/2025	Design
7	1. Mr. Sarvajeet Amarjeet Bhosale 2. Dr Seema Suhas Patil 3. Dr.Chettan Rajan Dongarsane 4. Dr. Digvijay Jotiram Pawar 5. Mrs.Sandhya V. Sagavkar 6. Ashokrao Mane Group of Institutions	441877-001	Interactive Mental Health Tracking Device	Granted	10/03/2025	Design

8	1.Mrs. Rohini Prashant Jadhav 2.Mr. Anil Balaso Desai 3.Ms. Pradnya Prakashrao Nagarale 4.Mrs. Prachi Girish Chavan.	430576-001	Auto Speed Adjust Fan	Granted	26/03/2025	Design
9	1. Dr. Jaydeep Mohanrao Shinde 2. Mr. Sangram Ananda Dopare	443962-001	AI-Based Solar Powered Concrete Mixer Device	Granted	21/04/2025	Design
10	Mrs. Shwetali Shivaji Ranjane	449171-001	Language Learning AI Device	Granted	21/05/2025	Design
11	Mr. Pravin Basaveshwar Ghewari	448790-001	Flower-Shaped DGS Patch Antenna	Granted	03/06/2025	Design
12	1 Dr Seema Suhas Patil 2 Mrs. Aditi Abhijeet Kumbhar 3. Mrs. Vijaya Prakash Phalle 4 Mrs. Shivani Ashish Kanade 5. Mrs. Shilpa A Shankardas 6.Dr.Chettan Rajan Dongarsane	442687-001	Autonomous Precision Farming Rover	Granted	04/28/2025	Design

List of Innovative Ideas at Campus

Sr.No	Name of Innovation	TRL
1	Conditional monitoring of centrifugal pump using machine Learning and IOT	Level 3
2	Design and development of mini mechanical ventilator	Level 3
3	Design and fabrication of multipurpose wheelchair	Level 4
4	Oil spill detection on sea using radar Technology	Level 3
5	Post quantum cryptography technique for secure communication	Level 3
6	Driver drowsiness detection system	Level 3
7	Speech emotion detection using CNN	Level 3
8	Machine learning based tomato leaf detection system	Level 3
9	Data logging for industrial automation using cloud server	Level 4
10	Advanced circuit breaker monitoring and management system using sim7670 gsmmodule4g and LABVIEW for enhanced Electrical Safety And Compliance In Hostel	Level 3
11	Automatic bottle filling machine by using LABVIEW and PLC	Level 3
12	Smart agriculture pesticide spraying wireless robot	Level 3
13	Home Automation	Level 4
14	Smart ground water monitoring IOT based system	Level 3
15	Comprehensive assessment and integrated water Treatment strategy for restoration of the panchaganga river, maharashtra	Level 3
16	A study of key aspects of hospitality management with special reference to hotel 3 leaves	Level 3
17	A study of impact of GST on manufacturing industry with Special Reference to exenity systems pvt ltd.	Level 4
18	A study of time and stress management with special reference To meshba solution llp	Level 3

Contact:

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Dr. C.R. Dongarsane

President, Institution Innovation Council (IIC)
AMGOI, Vathar





Dr. (Mrs.) S.R. Chougule
Head of Institute
AMGOI, Vathar