



Modern Education Society's Wadia College of Engineering, Pune

IIC-MESCOE Annual Report 2022-23



A. About IIC Institute

About Ministry of Human Resource Development's Innovation Council (MIC)

The Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in their formative years.

About MESCOE

Modern Education Society was established in 1932, with the motto "**FOR THE SPREAD OF LIGHT**". The Modern Education Society's Wadia College of Engineering, Pune was established in 1999 and conducts the following courses leading to Bachelor's Degree in Engineering & Master Degree in Engineering.

UG COURSES

Computer Engineering Intake - 180

Electronics & Telecommunication Engineering Intake - 120

Mechanical Engineering Intake – 120

Automation & Robotics - 60

PG COURSES

ME in Mechanical Engineering Design Intake - 24

ME in Signal Processing Intake - 12

ME in Computer Engineering Intake – 12

About IIC-MESCOE

The Institution's Innovation Council of Modern Education Society's Wadia College of Engineering (IIC MESCOE) has been established on 22nd October 2020. At present there are more than 50 staff and more than 60 students who are active members of IIC. These members are actively coordinating and organizing multiple activities for the benefit of all the students of MESCOE. The representation of members, both students and staff, in IIC MESCOE is from across the various departments in the college. We have representation from the Alumni, patent expert and experts from the industry as well.

Objectives of formation of IIC-MESCOE

1. ATAL Innovation Ranking (ARIIA)
2. NIRF Ranking
3. IIC Ranking
4. Funding to potential startups by MIC (Ministry of Education's Innovation Council)
5. Motivation to students to become entrepreneurs
6. Internship opportunities at startups to students
7. Educate students regarding the IPR process and its importance
8. To conduct various Innovation, IPR and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
9. Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
10. Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.

B. Key functionaries at IIC MESCOE

IIC-MESCOE Team: Faculty Representation

Sr. No.	Category	Name of Coordinator
1	President	Dr. (Mrs.) Nuzhat F. Shaikh (Comp)
2	Vice President	Dr. Manisha P. Dale (E&TC)
3	Convenor	Dr. V. N. Raibhole (Mech)
4	Social Media	Mr. S. R. Kandharkar (Mech)
5	Startup Activity Coordinator	Dr. (Miss) R. M. Wahul (Comp)
6	Innovation Activity Coordinator	Dr. (Mrs.) J. R. Pansare (Comp)
7	Internship Activity Coordinator	Dr. R. N. Yerrawar (Mech)
8	IPR Activity Coordinator -	Dr. P. N. Kota (E&TC)
9	ARIIA Activity Coordinator	Dr. M. P. Dale (E&TC)
10	NIRF Activity Coordinator	Dr. S. K. Wagh (Comp)

External Expert Representation

External Members from Industry			Area of Association
1.	Dr. Pramod Dhembare	Fidelity Diagnostics Private Limited	Bank/Investor
2.	Mr. Swapnil M. Sanap	Khurana & Khurana, Advocates and IP Attorneys	Patent expert
3.	Mr. Ajay Garg	DASHA KRIT TECHNOLOGIES PVT LTD	Industry/Industry association/Ecosystem Enablers
4.	Mr. Jasveer Jethra	Sense it Out	Innovation/Start up

IIC MESCOE Staff Representation

Sr. No.	Name of Staff	Department	Activity
1.	Mr. S. R. Kandharkar	Mech. Engg	Social Media
2.	Mr. A. A. Patil	Mech. Engg	Social Media
3.	Ms. P. S. Tondewad	E&TC Engg	Social Media
4.	Ms. S. S. Mohitkar	FE	Social Media
5.	Mr. Umesh Patil	Office	Social Media
6.	Mr. S. B. Shinde	Computer Engg	Social Media
7.	Mr. P. V. Raut	Computer Engg	Social Media
8.	Dr. (Miss) R. M. Wahul	Computer Engg	Startup Coordinator
9.	Dr. V. N. Chougule	Mechanical Engg	Startup

10.	Mr. S. P. Gadewar	Mechanical Engg	Startup
11.	Dr. B. D. Nandare	Mechanical Engg	Startup
12.	Dr. (Mrs.) A. P. Kale	Computer Engg	Startup
13.	Dr. (Mrs.) N. F. Shaikh	Computer Engg	Startup
14.	Mrs. Nabegha Masood	E&TC Engg	Startup
15.	Mrs. Usha Bomble	E&TC Engg	Startup
16.	Ms. B. F. More	Computer Engg	Startup
17.	Mr. Y. S. Ingle	Computer Engg	Startup
18.	Ms. V. H. Kamble	Computer Engg	Startup
19.	Dr. J. R. Pansare	Computer Engg	Innovation Coordinator
20.	Mr. K. A. Mahajan	Mechanical Engg	Innovation
21.	Mr. A. A. Chaugule	Mechanical Engg	Innovation
22.	Dr. A. C. Mitra	Mechanical Engg	Innovation
23.	Mr. A. S. Kamble	Computer Engg	Innovation
24.	Mr. A. D. Dhawale	Computer Engg	Innovation
25.	Mr. P.M. Walunjkar	FE Department	Innovation
26.	Dr. A R Patil	Mechanical Engg	Innovation
27.	Ms. Bharati Mohan Narute	E&TC Engg	Innovation
28.	Ms. Aparna Dhavlikar	E&TC Engg	Innovation
29.	Mrs. Shubhangi Eknath Ingale	Computer Engg	Innovation
30.	Dr. (Mrs.) Kanchan Tiwari	E&TC Engg	Innovation
31.	Dr. V. N. Raibhole	Mech. Engg	IPR
32.	Mr. V. R. Varude	Mech. Engg	IPR
33.	Dr. (Mrs.) S. K. Wagh	Computer Engg	IPR
34.	Dr. (Mrs.) J. R. Pansare	Computer Engg	IPR
35.	Mrs. S. P. Deore	Computer Engg	IPR
36.	Mrs. S. S. Raskar	Computer Engg	IPR

37.	Mr. G. S. Pole	Computer Engg	IPR
38.	Dr. K. S. Tiwari	E&TC Engg	IPR
39.	Dr. M.V. Vaishampayan	FE	IPR
40.	Dr. P. N. Kota	E&TC Engg	IPR
41.	Mrs. S. R. Khonde	Computer Engg	Internship
42.	Mr. B. K. Bodkhe	Computer Engg	Internship
43.	Mr. G. S. Pole	Computer Engg	Internship
44.	Mr. G. B. Aochar	Computer Engg	Internship
45.	Mr. M.S.Shinde	Computer Engg	Internship
46.	Mrs. Yogita Ajgar	E&TC Engg	Internship
47.	Mrs. P M Bagul	E&TC Engg	Internship
48.	Dr. S D Dhaygude	FE	Internship
49.	Mr. Tushar Gadekar	TPO	Internship
50.	Mrs. S. P. Deore	Computer Engg	Internship
51.	Dr. S. K. Wagh	Computer Engg	Internship

Student Representation

Sr. No.	Activity	No. of Student
1	Social Media Member	10
2	Innovation	10
3	Startup	19
4	Internship	10
5	IPR	10

C. Tabular representation of Resource strength of IIC MESCOE

Sr. No	Resource Strength	Count
1.	Total Student Members	56
2.	Total Staff members	51
3.	Innovation Ambassadors	Foundation Level – 10 Advanced Level - 3
4.	Mentors from Portal	10

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

We have formed a club by the name Hackerearth Club to motivate students to participate in various hackathons to solve social problems in an innovative way. Hidden innovators in the college get to showcase their skills and learn from the experience in competitive coding.

E. Outcomes achieved till date after formation of IIC-MESCOE

- 1. IIC-MESCOE has got a 3.5 STAR RANKING (on a scale of 5) by Ministry of Education's Innovation Council for the four quarters of 2021-22.**
- 2. IIC-MESCOE has got a 2 STAR RANKING (on a scale of 2.5) by Ministry of Education's Innovation Council for the first 2 quarters of 2020-21.**
- 3. Better association with Alumni who are successful as Entrepreneurs.**
- 4. A step towards helping build the ecosystem of startups and innovation.**
- 5. 118 Students from all the 3 departments have got an opportunity to pursue internships at various startups and other organizations.**

Sr. No.	Department	Ongoing Internships	Completed Internships	Total
1.	Comp	–	234	234
2.	E&Tc	03	153	156
3.	Mech	–	83	83

- 6. Registered and completed the procedure for NIRF Ranking.**
- 7. Registered and completed the procedure for ARIIA Ranking.**

F. Highlight Achievements (tabular representation)

No of Activities conducted for promotion of Innovation, startup and IPR

Sr. No.	IIC Calendar/Self Driven Activity	No of Activities conducted	Amount spent on promotion and awareness
1.	Entrepreneurship & Startup	16	53,000/-
2.	Innovation	17	42,900/-
3.	IPR	11	32,559/-
4.	Internship	4	4000/-
5.	ARIIA	1	2000/-
6.	NIRF	1	2000/-
7.	MIC Driven	3	–

List of Activities

Sr. No.	Activity Name	Activity type	Activity Category
Quarter 1 (1st Sept. - 30th Nov.)			
1	My Story - Motivational Session by Successful Entrepreneur/Start-up founder.	IIC Calendar	Entrepreneurship & Startup
2	My Story - Motivational Session by Successful Innovators	IIC Calendar	Entrepreneurship & Startup
3	Exposure and field visit for problem identification	IIC Calendar	Innovation
4	Demo Day/Exhibition/Poster Presentation of Ideas/PoC & linkage with Innovation Ambassadors/Experts for Mentorship Support -Manage through YUKTI-NIR	IIC Calendar	Innovation
5	Awareness on Intellectual Property Rights	Self-Driven	IPR
6	Innovation Day	Celebration	Innovation
Quarter 2 (1st Dec. - 28th Feb)			
7	Session on Achieving Problem-Solution Fit & Product-Market Fit	IIC Calendar	Innovation
8	Workshop on Entrepreneurship Skill, Attitude and Behavior Development	IIC Calendar	Entrepreneurship & Startup
9	Workshop on Design Thinking, Critical thinking and Innovation Design	IIC Calendar	Innovation

10	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer"	IIC Calendar	Innovation
11	Freelancing 101 How to Grow Your Startup with Freelancing	Self-Driven	Entrepreneurship & Startup
12	LinkedIn Master class How to Leverage Your LinkedIn to Grow Your Startup and Network	Self-Driven	Entrepreneurship & Startup
13	Session on Venture Finances- How to Manage and Plan Your Finances While Starting Your New Venture / Startup by Mr. Viransh Mokati	Self-Driven	Entrepreneurship & Startup
14	Session on "Web 3.0 - Booming Startup Domain (Crypto)" by Mr. Sumit Kumar	Self-Driven	Entrepreneurship & Startup
15	SPPU Research Park Foundation Visit	Self-Driven	Entrepreneurship & Startup
16	Dissecting success: Analyzing the skills that pave the way for excellence.	Self-Driven	IPR
17	IPR Awareness session	Self-Driven	IPR
18	Basic concepts of Intellectual Property Rights	Self-Driven	IPR
19	EV Expo & Contest	Self-Driven	Innovation
20	Entrepreneurship skill attitude and Behaviour Development	Self driven	Entrepreneurship & Startup
20	National Science Day	Celebration	IPR
21	National Youth Day	Celebration	Innovation

22	Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE)	MIC	Innovation
23	Orientation Session on IIC 5.0 & Features	MIC	Innovation
Quarter 3 (1st Mar. - 31st May)			
24	Organize an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations - Manage through YUKTI-NIR	IIC Calendar	Innovation
25	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	IIC Calendar	IPR
26	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/ Technology Transfer Centre such as Atal Incubation Centre etc.	IIC Calendar	Entrepreneurship & Startup
27	Session on "How to plan for Start-up and legal & Ethical Steps"	IIC Calendar	Entrepreneurship & Startup
28	Session/ Workshop on Business Model Canvas (BMC)	IIC Calendar	Entrepreneurship & Startup
29	Business Strategies that Pave the Way for Excellence	Self-Driven	Innovation
30	RECENT ADVANCES IN COMPUTER ENGINEERING	Self-Driven	Innovation
31	Business Strategies that pave the way for Excellence	Self-Driven	IPR
32	3D Printing Emerging Technologies	Self-Driven	Entrepreneurship & Startup
33	Ideathon	Self-Driven	Entrepreneurship & Startup
34	PROJECT COMPETITION-2023	Self-Driven	Innovation

35	World Creativity and Innovation Day	Celebration	Innovation
36	World Intellectual Property Day	Celebration	IPR
Quarter 4 (1st June - 31st Aug.)			
37	Organize Session on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp (or) Mentoring Session	IIC Calendar	Innovation
38	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs.	IIC Calendar	Entrepreneurship & Startup
39	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving “Value Proposition Fit” & “Business Fit”	IIC Calendar	IPR
40	Internet of Things-Manufacturing to Marketing	Self-Driven	Innovation
41	EMBRACING THE JOURNEY OF SUCCESS!	Self-Driven	Innovation
42	Unlock the Power of networking and opportunities.	Self-Driven	IPR
43	EV - Booming Sector Entrepreneurship Journey from colleges to award winning startup	Self-Driven	Entrepreneurship & Startup
44	Manufacturing & Entrepreneurship laying the foundation Social Entrepreneurship	Self-Driven	Entrepreneurship & Startup
45	Innovations and Patents	Self-Driven	Innovation
46	A session on “Digital Marketing and How to Market your Business Online”	Self-Driven	IPR

47	National Technology Week Inaugural Address of Hon'ble Prime Minister of India	MIC	Innovation
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No. of IPs generated, published and granted

	Filed	Published	Granted
Patents	14	10	4
Copyrights	Registered – 02		

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

BE Mechanical Engineering students have designed and developed Hybrid Electric Two Wheeler. The purpose of this hybridization is to take advantage of both conventional and nonconventional energy sources. This hybrid vehicle can cover 62 km in electric mode and 42 km in fuel mode. In this vehicle 60V 30Ah Pouch type battery pack with 1500 watt BLDC hub motor is used along with BMS system and power electronics. The project was short listed in E-Vehicle category for presentation and participation in state level project competition DIPEX 2023 at Sipna College of Engineering & Technology, Amravati.



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

BE Mechanical Engineering students have designed and developed Hybrid Electric Two Wheeler. The purpose of this hybridization is to take advantage of both conventional and nonconventional energy sources. This hybrid vehicle can cover 62 km in electric mode and 42 km in fuel mode. In this vehicle 60V 30Ah Pouch type battery pack with 1500 watt BLDC hub motor is used along with BMS system and power electronics. The project was short listed in E-Vehicle category for presentation and participation in state level project competition DIPEX 2023 at Sipna College of Engineering & Technology, Amravati.



Fig. Hybrid two wheeler

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

The BE Mechanical project was short listed in E-Vehicle category for presentation and participation in state level project competition DIPEX 2023 at Sipna College of Engineering & Technology, Amravati. BE Mechanical Engineering students have designed and developed Hybrid Electric Two Wheeler. The purpose of this hybridization is to take advantage of both conventional and nonconventional energy sources. This hybrid vehicle can cover 62 km in electric mode and 42 km in fuel mode. In this vehicle 60V 30Ah Pouch type battery pack with 1500 watt BLDC hub motor is used along with BMS system and power electronics.

J. Detail of Social Media & Connections of IIC institute

- Facebook: <https://www.facebook.com/mescoe.iic>
- Instagram: <https://www.instagram.com/mescoe.iic>
- Twitter: https://twitter.com/mescoe_iic
- YouTube: https://www.youtube.com/iic_mescoe

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

"The establishment of IIC at MESCOE gave us a ray of hope during the gloomy lockdown days (Oct 2020). We as a team had a lot to look up to when organizing various events defined by the MIC through the IIC 3.0 Calendar and 4.0. Supporting such activities is a very constructive and timely step taken by the MIC. This has helped us strengthen the ecosystem of innovation and startup in our students. It is one of the best ways to interact with young minds and get a chance to mentor them. The culture of IPR (filing patents and copyrights) is also developing fast under the aegis of IIC MESCOE."



*Dr. Nuzhat F. Shaikh
President IIC MESCOE*

Institutions Innovation Council (IIC) is an excellent initiative of AICTE, MoE, Govt. of India for organizing Entrepreneurial, IPR and Start-up activities. It has been a great contributor to the development of the Innovation and Entrepreneurship Ecosystem in our Institute campus. We as a team of faculties and students gained valuable insights through organizing various activities under IIC on Innovation ecosystem related to start-up, entrepreneurship and IPR.



*Dr. V. N. Raibhole
Convener IIC MESCoE*

"Being a MESCOE IIC Innovation activity coordinator is a challenging and excellent task to coordinate various activities such as webinars, workshops, competitions etc. along with a collaborative team of faculties and students. It is a nice experience and a good opportunity to handle multiple sub-tasks concurrently and combine together and experience the outcome in the form of successful events. Actually, IIC INNOVATION offers a great platform to present ideas, innovation, and gain expert knowledge from diversified speakers."



*Dr. (Mrs.) Jayshree R. Pansare
Innovation Coordinator, IIC-MESCoE*

"Institutions Innovation Council IIC-MESCOE has become an integral part of the college and has conducted many activities which helped students of MESCOE get familiar with the process of becoming an entrepreneur. IIC-MESCOE has flourished and gained success as the faculty members and students of the cell have worked around the clock. We worked as a team and kept the team spirit alive which contributed to the development of the cell. We aspire to work together, to inspire the young generation of MESCOE to unlock their true potential and achieve their entrepreneurial goals."



*Dr. Revati M. Wahul
Startup Coordinator, IIC-MESCOE*

Institution's Innovation Council (IICs) under the Ministry of Education (MoE), Govt. of India, is a good initiative to encourage, inspire, and nurture young students for innovations, patenting, and start-ups of their new ideas. These activities definitely stimulate young minds towards entrepreneurship by converting their ideas into products or services which will lead to building a nation to new heights.



*Dr. P. N. Kota,
IPR Coordinator, IIC MESCoE*

We students of Modern Education Society's Wadia college of engineering, attended these educational; sessions about the IIC which is an initiative of the Ministry of Education, Govt. of India for selected higher educational institutes. As per all the students from our class, these sessions were wonderful and very much informative which helped us to improve and go beyond the box. The young innovators and entrepreneurs shared their valuable information and experiences with us. The activity they conducted during the session were engaging. The sessions like this play an important role in inspiring and educating the next generation of innovators.



*Ms. Sakshi Ahvad
Student Member*

I had the privilege of attending the sessions organized by MESCOE College's Computer Department, featuring young innovators, entrepreneurs and start-up leaders in collaboration with the Institutions Innovation Council (IIC). The content covered during these sessions were incredibly relevant to the current innovation and start up landscape. Their experiences and insights were valuable and relatable. The interactive nature of the session was nice. Attendees had the chance to ask questions and engage in meaningful discussions with the speaker. It made the session not only informative but also informative and engaging. The sessions provided a great platform for networking with like-minded individuals and potential mentors. It's a valuable resource for students.



*Ms. Vaishnavi Pawar
Student Member*

L. Images







Modern Education Society's
College of Engineering
(Wadia College Campus)

Modern Education Society's College of Engineering, Pune

ACCREDITED BY NBA & NAAC WITH GRADE 'A++'
Affiliated to Savitribai Phule Pune University, Approved by AICTE



**EV - Booming Sector
Entrepreneurship Journey
from colleges to award
winning startup**



Monday
21 AUGUST 2023

Time
10.00 AM Onwards

Mr. Prathamesh Choudhary
Founder & CEO
ELESPEA HEV

Dr. R. N. Yerrawar
Internship Coordinator
IIC-MESCOE

Dr. V. N. Raibhole
Convener
IIC-MESCOE

Dr.(Mrs.) N. F. Shaikh
President
IIC-MESCOE

Dr.(Ms.) M. P. Dale
I/C Principal
MESCOE

Modern Education Society's Wadia College of Engineering, Pune

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Mr. Vedant Mane
Founder & CEO
MIBAiO Elmec Smart Automations
Pvt Ltd (MIBAiO)



**Session on "Internet of
things - Manufacturing to
Marketing"**



Thursday
24 AUGUST 2023

Time
10:00 AM Onwards

Dr.(Mrs.) J. R. Pansare
Innovation Coordinator
IIC-MESCOE

Dr. V. N.Raibhole
Convener
IIC-MESCOE

Dr.(Mrs.) N. F. Shaikh
President
IIC-MESCOE

Dr.(Ms.) M. P. Dale
I/C Principal
MESCOE

M. Contact

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