

# SKN SINHGAD COLLEGE OF ENGINEERING

Accredited by NAAC with "A+" Grade
A/P- Korti, Dist- Solapur Pin- 413304, MH, INDIA
(Approved by AICTE, recognized by DTE & Affiliated to Punyashlok
Ahilyadeyi Holkar, Solapur University)



# Institution's Innovation Council 6.0

# Annual Report 2023-24









Manage Activity

# Savitribai Phule Shikshan Prasarak Mandal's

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SKN SINHAGAD COLLEG OF ENGINEERING (C-15745) **8** IIC Annual Performance Report 2021-22 IIC Annual Performance Report 2020-21 Performance Report for the Academic Year 2022-23 I&E Courses

Total Score: 72.33/100 Total Reward: 5.95 Final Star: 3.5/5 Total Score Earned (I + II = 100) Score Earned from Participation (II = B\*20%) Activity Summary Score Earned for Q1-Q4 Activities (I = A\*80%) Submit Expert Session tal no of Submitted Activities 61 Total IA Verified Report : 3 Total Score Earned for Q1-Q4 Activities: 77.46 Total Score Earned from Participation: 51.81 No of Approved Activities : 62 72.33 No of Disapproved Activities : 2 Disapproval % of Activities : 3.13 Reward Point Earned : 5.95055 ition & Start-up



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# A. About IIC Institute:

In the academic year 2020-2021, SKNSCOE established the Institution Innovation Council under the Ministry of Education (MoE) through MoE's Innovation Cell (MIC) in collaboration with AICTE to systematically foster the culture of innovation and start-up ecosystem in the institute. Primarily, the IIC's role is to engage a large number of faculty, students, and staff in various innovation and entrepreneurship-related activities such as ideation, problem solving, proof of concept development, design thinking, IPR, project handling and management at the pre-incubation/incubation stage, etc., so that the innovation and entrepreneurship ecosystem gets established and stabilized in the institute. Since the establishment of the Institution Innovation Council (IIC), all IIC-driven, MICdriven, and self-driven activities and day celebrations are conducted regularly in the institute. The institute has established a pre-incubation center, incubation center, and IPR cell. It has an entrepreneurship development cell functional for the last 13 years. To foster an innovation culture, subjects like product development and entrepreneurship, creativity and design thinking, mini projects, and capstone projects are included in the NEP syllabus. The institute supports I and E activities by providing the institute's innovation and startup policy. The incubation center has six collaborations with other incubation centers, including PAH Solapur University's Udyam Center. The institute has received a 4-star rating consecutively from the Ministry of Education and has strengthened its activities along with Atal Innovation Centers in nearby schools. In the academic year 2023-24, the institute has worked as a mentor institute by providing support to five mentee institutes.

SKNSCOE has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' in the year 2019. The initiative was to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish function ecosystem for scouting ideas and pre-incubation of ideas and to develop better cognitive ability for technology students. SKNSCOE- IIC is actively involved in organizing and conducting seminars, workshops, field trips, project exhibitions, entrepreneurship boot camps, Idea competitions etc. for its students and faculties. IIC President Dr. S. G. Kulkarni called meeting to plan the activities for the First Quarter for the year 23-24. The IIC member details for the academic year 2023-24 are as follows:



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# B. Brief mention of key functionaries at the IIC Institute

President: Dr. S. G. Kulkarni

☐ Vice President: Mr.D.M.Korake

☐ Convenor: Dr.S.G.Deshmukh

**Coordinators: 10** 

Sr. No.	Name of the Staff	Position
1	Dr. S. G. Kulkarni	President
2	Prof. D. M. Korake	Vice President, ARIIA Coordinator
3	Prof. S. C. Mali	NIRF Coordinator
4	Dr. S. D. Katekar	Social Media
5	Dr. S. G. Deshmukh	Convener
6	Dr. A. S. Aradhye	Innovation & Incubation Activity/KAPILA
7	Prof. B. S. Savase	Internship Activity Coordinator
8	Prof. P. B. Vyavahare	IPR Activity Coordinator
9	Dr. B. S. Gandhare	Startup Activity Coordinator
10	Prof. G. D. Lakdade	YUKTI



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## **Members:**

**Total IIC Member: 09** 

SKNSCOE IIC also formed the committee to implement and monitor the National Innovation and Startup Policy (NISP) and a resolution was passed on 3<sup>rd</sup> August 2024.

1	Prof. D. R. Giram	Member
2	Prof. M. V. Tondase	Member
3	Prof. K. P. Jadhav	Member
4	/Prof. A. H. Shinde	Member
5	Prof. R. S. Yevale	Member
6	Dr. S. A. Kale	Patent expert
7	Prof. R. M. Jadhav	Bank/Investor
8	Prof. Shivraj Kale	Incubation Member
9	Dr. Atul Sagade	Expert from nearby Industry/Industry association

# Vision / Mission of IIC established at the Institute:

# Vision:

"We are committed to transform SKNSCOE, as a leading technological institute in India which offers a dynamic learning environment with value based education through self-learning and innovative thinking in students."

# **Mission**:

- SKN Sinhgad College of Engineering offers a unique culture to enhance self-esteem, team spirit, and life skills of students to match the need of fast changing world.
- The institute focuses on self-learning abilities & project based learning through well-defined curricular and co-curricular activities.



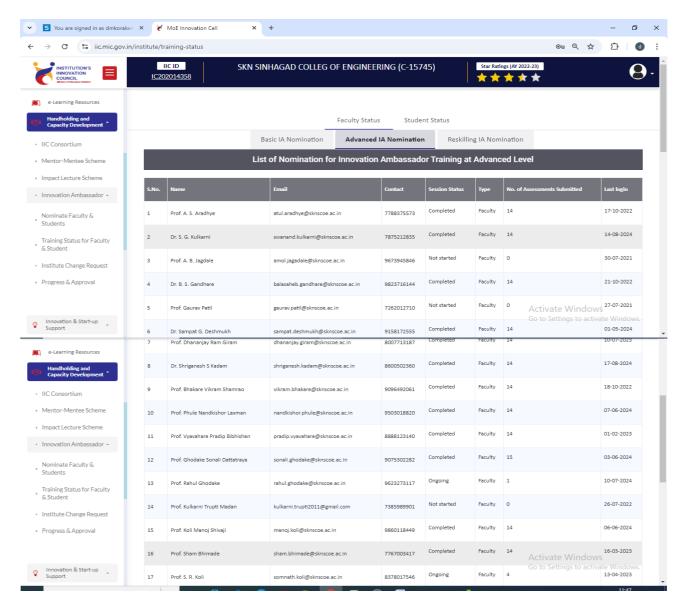
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# C. IIC - Innovation Ambassador:

The Institution's Innovation council of MHRD's Innovation Cell organized a series of training programs exclusively for IIC members. During the current academic year, Twenty two of the faculty members have completed basic level as well as advanced level training sessions and are designated as "IIC - Innovation Ambassador". They are trained to play a role of mentor or guide for young mindsin their pursuit of innovation and entrepreneurship. The Faculty Innovation Ambassadors are:



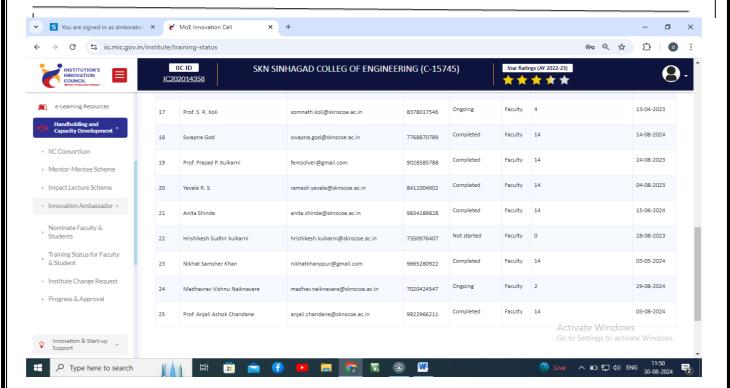


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# Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.

The attempt is made to give the diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units. All heads of department are IIC members of institute. All the senior faculties are coordinators of IIC activities and external members are from research background as well as from industry

☐ Pre-Incubation Units: 01

☐ Incubation Units: 01

☐ IP Facilitation Unit: 01

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

Institutes possess the Pre-Incubation center at SKN Sinhgad college of Engineering where the conversion of student projects and their ideas in patent writing is followed. The institute has Research park area near to which incubation center is established where student and faculties have all the facilities to work on their idea.

The innovative projects are exhibited here. Additionally, there is creativity and Thinking lab in the institute to motivate the students for innovative thinking. Institute have made framework of National Innovation and Start-up policy also



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

1.	Number and Different types of I&E and IPR activities Conducted	382
2.	No. of student's & faculty ideas generated	155
3.	No. of student's & faculty Innovation/prototypes developed:	29
4.	No. of IPs generated, published and granted	26
5.	No. of Student & Faculty Start-ups/Ventures established	17
6.	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	2,69,000/-
7.	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	37,200/-
8.	No. of Technology Transfer and Commercialization happened	01

# F. Highlight few best IIC Faculty/Student members and their achievements/

- ❖ Mr Yashraj Gawali and Saurabh Jare, have successfully completed district and Zonal Level and represented Maharashtra State for National level Skill India Competition
- ❖ Prof. S. R. Koli, member of IIC got research fund 2.40 lacs from Rajiv Gandhi Science & Technology commission.
- ❖ Dr. S. G. Kulkarni, Dr. B.S. Gandhare, Prof. A. B. Jagdale, Prof. Gaurav Patil, Prof. Atul Aradhye, Prof. D. R. Giram designated as "IIC Innovation Ambassador".
- ❖ Dr. S. G. Deshmukh organized conference on innovations in computer science and engineering and organized panel discussion on startup opportunities.
- ❖ Prof. U S Gholap taken initiation for startup on wormy composting



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# G. Highlight selected best Innovations & images with mention of inventor / innovationname Following innovative projects are under

	Grant	s Received in A. Y.	2023-24 (I	NR in Lakhs	)		
Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (INR in Lakhs)	Duration of the project	Name of the Funding Agency	Type (Government/no n- Government)
Awareness and construction of soak pit" submitted by you under SEG Liquid waste management	Dr.S. G. Kulkarni	Mechanical Engineering Civil Engineering	2023-24	0.50	1 Years	Unnat Bharat Abhiyan	Government
Performance Evolution of Porous Concrete Supplementary Cementitious materials for improvement in mechanical properties.	Prof. G. D. Lakade, Dr. C. P. Pise	Civil Engineering	2023-24	0.70	2 Years	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Government
Experimental Testing & Analysis of Thermal Behaviour of rolling element bearing	Dr. S. S. Kulkarni	Mechanical Engineering	2023-24	0.75	2 Years	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Government
Semi-Automatic Solar Powered Pesticide Sprayer for farming	Dr. A. O. Mulani	ENTC	2023-24	0.80	2 Years	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Government
Electrical Vehicle Charging Station	Prof. A. A. Chandane	Electrical Engineering	2023-24	0.85	2 Years	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Government
2nd International Conference on Innovation in Artificial Intelligence and Machine Learning	Dr. A. O. Mulani	ENTC	2023-24	0.25	2 days	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Government
One Week FDP on Innovative Pedagogical Practices in higher education - leading through Technology	Dr S. V. Pingale	CSE Engg	2023-24	1.19	5 days	Maharashtra state faculty development academy & Homibaba state University Mumbai	Government



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# H. Highlight selected start-ups established by students/faculties with mention of Founder/cofounder name

- 1) Mr. Ratan Lal Pingale generated startup on oil extraction from oil seed useful for health through wood oil mill
- 2) Mr. Shubham Magaji started startup on bakery products

# I. List if any break through Innovations / Technology Developed at the institute

- Light weight Bio gas plant development
- Soak pit design for water sanitation
- Biomass burning Chulha
- Feed dispensing mechanism for poultry form

# J. Participation of IIC-institute in various programs of Central and Stage Govt.

# Highlighting specially for the schemes or programs

- ARIIA participated this year and Rank is expected
- NISP Adoption status Trained Faculty, Policy Formulation, Policy Implementation
- Smart India Hackathon etc.
- Applied for grant to Incubation Centre of institute
- Mr Yashraj Gawali and Saurabh Jare, winner of Maharashtra State Skill Competition,
   Participated in National level Skill India Competition

#### K. Detail of Social Media & Connections of IIC institute

On social media

#### **College Website:**

https://www.sknscoe.ac.in

#### **Facebook Page:**

https://www.facebook.com/SKN-Sinhgad-College-of-Engineering-Korti-Pandharpur-

# **Facebook Account:**

https://www.facebook.com/sinhgad.pandharpur/

## **Instagram Account:**

https://www.instagram.com/sinhgadpandharpur/



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## YouTube Channel:

https://www.youtube.com/channel/UCWB9fv6fAuzfS6EfMO-aZVQ

**Twitter Account:-**

https://twitter.com/SINHGADINSTITU2?s=08

**Linkedin Account:-**

https://www.linkedin.com/in/skn-sinhgad-college-pandharpur-0657a0212/

## L. Testimonials from IIC members and external about IIC institute and IIC of

## **MoE's Innovation Cell**

- Four Star Rating in IIC 3.0
- Four Star Rating in IIC 4.0
- 3.5 Star Rating in IIC 5.0

# Activity Conducted for Quarter - I

Sr. No	Title of Activity	
1	Workshop on "Entrepreneurship and Innovation" as Career Opportunity	
2	My Story - Motivational Session by Successful Innovators	
3	My Story - Motivational Session by Successful Entrepreneur/Start-up founder	
4	Session on Problem Solving and Ideation Workshop	
5	Exposure and field visit for problem identification	
6	Organise an Inter/Intra Institutional Idea Competition and Reward Best Ideas -Manage through YUKTI-NIR	
7	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Ideas/PoC &linkage with Innovation Ambassadors/Experts for Mentorship Support -Manage through YUKTI-NIR	



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# **Activity Conducted for Quarter - II**

Sr. No	Title of Activity
	IIC Council Meeting- Review of Q1 progress and Planning for Q2.
1	Workshop on Design Thinking, Critical thinking and Innovation Design
2	Organising Innovation & Entrepreneurship Outreach Program in Schools/Community
3	Organise an Expert talk on Process of Innovation Development, Technology Readiness Level (TRL); Commercialization of Lab Technologies & Tech- Transfer
4	Workshop on Entrepreneurship Skill, Attitude and Behavior Development
5	Conduct a Session on Achieving Problem-Solution Fit and Product-Market Fit
6	Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centers, City MSME clusters, workshops etc.
7	Organise an Inter/Intra Institutional Innovation Competition and Reward Best Innovations - Manage through YUKTI-NIR
8	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR

# **Activity Conducted for Quarter - III**

Sr. No	Title of Activity
	IIC Council Meeting- Review of QII progress and Planning for QIII.
1	Workshop on Prototype/Process Design and Development.
2	Session/ Workshop on Business Model Canvas (BMC)
3	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre such as Atal Incubation Centre etc.
4	Session on "How to plan for Start-up and legal & Ethical Steps"
5	Workshop on Intellectual Property Rights (IPRs) and IP management for start up
6	Organise an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations
7	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support.



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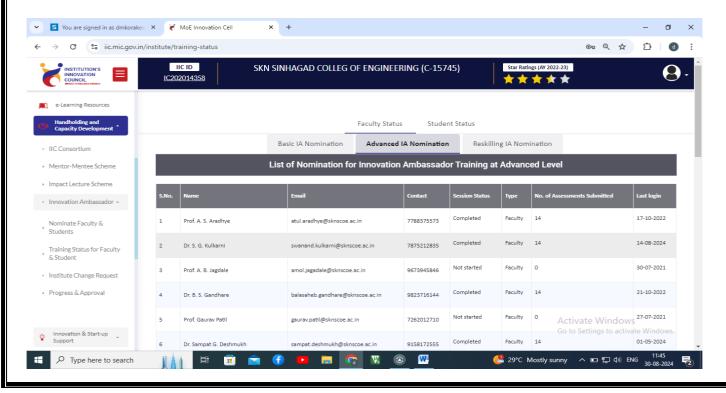
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# **Activity Conducted for Quarter - IV**

Sr.N	Title of Activity
1	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving "Value Proposition Fit" & "Business Fit"
2	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs
3	Organise Session on "Lean Start-up & Minimum Viable Product/Business"- Boot Camp (or) Mentoring Session
4	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs.
5	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level
6	Organising Innovation & Entrepreneurship Outreach Program in Schools/Community
7	Organise an Inter/Intra Institutional Start-up Competition and Reward Best Start-ups.
8	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Start-Ups & Linkage with Innovation Ambassadors/Experts for Mentorship Support

The detailed report of every activity is uploaded on IIC portal.





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# **M.Images**





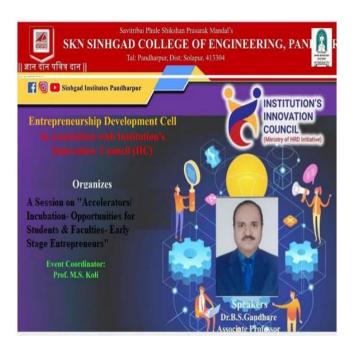
# **IIC Meeting**

winner of Maharashtra State Skill Competition



https://newspaper.pudhari.co.in/edition/maineidition/PUDHARI\_SOL/page/4





A Session on Accelerators/ Incubation-**Opportunities for Students & Faculties-Early Stage Entrepreneurs** 



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A Session on How to Plan for Startup

Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support

#### N. Contact

Dr. S G Kulkarni, Email- swanand.kulkarni@sknscoe.ac.in Mobile: 7875212835

Mr. D.M.Korake, Email- dattatrava.korake@sknscoe.ac.in Mobile: 7875212725

The IIC Calendar Activities are distributed in four quarters. Every quarter comprises IIC Calendar activity, MIC Driven Activity and Self Driven activity. IIC Calendar activity and Self driven activities are planned and conducted by the IIC members for the benefit of its students and faculty members. The activity conducted of each quarter and brief details of each activity are mentioned below.

-- End of Annual Report--