



Savitribai Phule Shikshan Prasarak Mandal's  
**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  
Ahilyadevi Holkar Solapur University)



# **Institution's Innovation Council 3.0**

## **Annual Report**

### **2020-21**



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



**MHRD**



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**About IIC Institute:**



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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 20-21. The IIC member details for the academic year 2020-21 are as follows:

**Brief mention of key functionaries at the IIC Institute**

- **President: Dr. S. G. Kulkarni**
- **Vice President: Prof. A. A. Rajguru**
- **Convenor: Dr. S. G. Kulkarni**

**Coordinators:**

Sr. No.	Name of Faculty	Activity
1	Prof. A. B. Jagdale	Innovation Activity
2	Prof. A. S. Aradhye	IPR Activity Coordinator
3	Dr. B. S. Gandhare	Start-up Activity Coordinator
4	Prof. V. A. Dhotre	ARIIA Coordinator
5	Prof. S. C. Mali	NIRF Coordinator
6	Prof. S. D. Katekar	Social Media
7	Prof. P. R. Gadekar	Hackathon Coordinator

**Members:**

**Total IIC Member: 06**

SKNSCOE IIC also formed the committee to implement and monitor the National Innovation and Startup Policy (NISP) and a resolution was passed on 19th August 2020.



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1	Prof. N. M. Sawant	Member
2	Prof. S. P. Ganjewar	Member
3	Dr. A. A. Sagade	External Member
4	Mr. Shivraj Kale	External Member
5	Prof. S. R. Koli	Member
6	Dr. S. S. Kulkarni	Member
7	Dr. S. S. Kadam	Member
8	Prof. S. V. Survase	Member

### **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, creativity and Life Skills of students to match the need of fast changing world. The institute focuses on self-learning abilities; Project based Learning's through well-defined curricular and co-curricular activities.”

#### **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, six of the faculty members have completed these training sessions and are designated as "IIC - Innovation Ambassador". They are trained to play a role of mentor or guide for young minds in their pursuit of innovation and entrepreneurship.

The Faculty Innovation Ambassador are:

- Dr. S. G. Kulkarni
- Prof. A. B. Jagdale

- Prof. D. R. Giram
- Dr. B. S. Gandhare
- Prof. Gourav Patil
- Prof. Atul Aradhye



### **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.**

Institute possess the Pre-Incubation center at mechanical Department of 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 centre 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

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

1.	Number and Different types of I&E and IPR activities Conducted	11
2.	No. of student's & faculty ideas generated	05
3.	No. of student's & faculty Innovation/prototypes developed:	04
4.	No. of IPs generated, published and granted	02
5.	No. of Student & Faculty Start-ups/Ventures established	04
6.	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	2,50,000/-
7.	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	25,000/-
8.	No. of Technology Transfer and Commercialization happened	01

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

- ❖ 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





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

Following innovative projects are under

Research Grant (Received):					
Sr. No.	Particulars/ Name of Project	Funding agency	Duration	Amount sanctioned (Rs.)	Amount Received (Rs.)
1.	Investigation on optical and electrical properties of Nano crystalline Cu <sub>3</sub> BiS <sub>3</sub> thin films for environment friendly photovoltaic solar cell	PAHSUS	2 Years	50,000/-	10000/-
2.	Energy optimal prototype design for wireless energy harvesting	PAHSUS	2 Years	60,000/-	10000/-
3.	Intelligent water supply management system for smart cities using IoT	PAHSUS	2 Years	70,000/-	15000/-
4.	Financial assistance for organizing workshop at the college during the financial year 2020-21 one day workshop on Google cloud certification	PAHSUS	1 Year	4,000/-	4,000/-
5.	Research project on "Production and utilization of biodiesel from Neem seed oil and suggesting design modification in diesel engine for rural development in India."	Rajeev Gandhi Science and Technology commission	2 Years	3,33,000/-	2,10,000/-

**1. Mr. Mandar Utapat worked on**

**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

**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

SKNSinhgadCOEITB[NEB/NIDHI/ITB/2021/167]

Research Grant (Applied):		
Sr. No.	Particulars/ Name of Project	Funding agency
1.	SKN Sinhgad COE ITB[NEB/NIDHI/ITB/2021/167]	DST
2.	Analysis of corrosion resistant prehistoric Indian iron by fabricating and characterizing artified specimen	DST

  

Submitted Projects Section		
Projects Under Consideration (1)		
Sr.	PROJECT TITLE [TITLE NO.]	SUBMIT DATE
1	Analysis of corrosion resistant prehistoric Indian iron by fabricating and ... [TPH / 6844]	15/08/2021

  

Submitted Projects Section		
Projects Under Consideration (1)		
Sr.	PROJECT TITLE [TITLE NO.]	SUBMIT DATE
1	SKN Sinhgad COE ITB [NEB/ NIDHI/ ITB/2021/167]	24/05/2021

## 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-667296420049379>

### Facebook Account:

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

### Instagram Account:





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

**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**

**Activity Conducted for Quarter – I**

Sr. No	Title of Activity
1	Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship)
2	Pitching workshop & linkage of innovators with Innovation Ambassadors
3	IIC Council formation or upgradation (of existing council) at Institute level
4	My Story - Motivational Session by Successful Entrepreneur/Startup founder.
5	Expert Lecturer on "Awareness about Entrepreneurship"

**Activity Conducted for Quarter - II**

Sr. No	Title of Activity
1	<b>IIC Council Meeting- Review of Q1 progress and Planning for Q2.</b>
2	IKS Orientation Session
3	KAPILA: Kalam Program for IP Literacy and Awareness
4	Idea/ PoC pitching & validation and Institute level PoC competition. Submission of Idea/PoC on IIC Portal
5	Orientation Session on National Innovation and Startup Policy (NISP)
6	Design Validation through various model of design validation (e.g.



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	Double Diamond Approach)
7	Best Business Plan Competition
8	Call for paper writing and research report on Innovation or Session on How to write case study/ report on innovation happening at the campus and publish the case studies in the Institute webpage
9	Field/Exposure Visit to Fab lab, Makers Space, Design Centres, City clusters etc.
10	3 Days workshop Supported by PAH Solapur University on "Women Entrepreneurs and reward of entrepreneurship"
11	Session on Process of Innovation Development

### Activity Conducted for Quarter - III

Sr. No	Title of Activity
1	IIC Council Meeting- Review of QII progress and Planning for QIII.
2	Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)
3	Business Plan/Prototype Competition to Invite Innovative Business Models from Students
4	Mentorship Session for Innovators (or) Student Entrepreneurs through experts and (or) Innovation Ambassadors/ Innovation Agent
5	Workshop on Prototype/Process Design and Development - Prototyping
6	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre/ Co- working spaces
7	Orientation session for all students & faculties of Institute by Innovation Ambassador(s).
8	Workshop on Intellectual Property Rights (IPRs) and IP management for start up
9	Session on "How to plan for Start-up and legal & Ethical Steps"
10	Session/ Workshop on Business Model Canvas (BMC)
11	Toy-Hackathon
12	Women in Entrepreneurship
13	Internship opportunities through online Internshala platform

### Activity Conducted for Quarter - IV

Sr.No	Title of Activity
1	Semester Break: Internship at start-up.
2	Orientation session for all students & faculties of Institute by Innovation Ambassador.



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3	IIC Council Meeting- Review of Q3 progress and Planning of Q4
4	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level.
5	Virtual Weengs
6	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs.
7	UG-PG CON 2K21
8	Organise Session on "Lean Start-up & Minimum Viable Product/Business"- Boot Camp (or) Mentoring Session
9	Session on Accelerators/ Incubation - Opportunities for the Students & Faculties – Early Stage Entrepreneurs

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

IIC ID		SKN SINHGAD COLLEGE OF ENGINEERING				Star Ratings			
IC202014358						★ ★ ★ ★ ★			
S.No.	Name	Email	Contact	Session Status	No. of Assessments Submitted	Last login	Phase	Action	
1	Prof. A. S. Aradhye	atul.aradhye@sknscoe.ac.in	7788375573	Completed	13	01-08-2021	Phase 1		
2	Dr. S. G. Kulkarni	swanand.kulkarni@sknscoe.ac.in	7875212835	Completed	13	24-08-2021	Phase 1		
3	Prof. A. B. Jagdale	amol.jagdale@sknscoe.ac.in	9673945846	Completed	13	30-07-2021	Phase 1		
4	Dr. B. S. Gandhare	balasaheb.gandhare@sknscoe.ac.in	9823716144	Completed	13	31-07-2021	Phase 1		
5	Prof. Gaurav Patil	gaurav.patil@sknscoe.ac.in	7262012710	Completed	13	27-07-2021	Phase 1		
6	Dr. S. G. Deshmukh	sampat.deshmukh@sknscoe.ac.in	9158172555	Ongoing	0	10-08-2021	Phase 2		
7	Prof. Dhananjay Ram Giram	dhananjay.giram@sknscoe.ac.in	8007713187	Completed	13	31-08-2021	Phase 2		

विद्यालयातून शिक्षण घेणाऱ्या अनेक विद्यार्थ्यांनी विविध उद्योग व व्यवसाय सुरू केले असून यामुळे वेबिनार मधून नवीन उद्योजकांच्या प्रक्रियेस चालना मिळणार आहे. नवीन शैक्षणिक धोरण व त्या अनुषंगाने महाविद्यालयीन शिक्षणामध्ये होणारे बदल यामुळे केंद्र सरकार, केंद्रीय उच्च शिक्षण व मनुष्यबळ विकास मंत्रालय व आयएसटीई यांच्या संयुक्त विचारातून नॅशनल इन्वेषिशन व स्टार्टअप पॉलिसी तयार केली आहे. हे वेबिनार यशस्वी करण्यासाठी महाविद्यालयातील प्रा. बाळासाहेब गंधारे सह सर्व शिक्षक व शिक्षकेतर कर्मचाऱी परिश्रम घेणार आहेत.





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Tal: Pandharpur, Dist: Solapur, 413304

Sinhgad Institutes Pandharpur

Savitribai Phule Girls' Forum  
Organizes Session on  
**"Women in Entrepreneurship"**

**Er. Viju Bhatia Bukate**  
Director  
Shriang Automation & Controls  
Pooja Group,  
Mumbai Metropolitan Region

Date: 08/03/2021 Time: 02:00 pm

Prof. A. C. Pise  
Staff Coordinator

एस. के. एन. सिंहगड अभियांत्रिकी महाविद्यालय, पंढरपूर

(02186) 250146 / 8378017546 Institute Code: 6643 www.sknscoe.ac.in

## पंढरपूर सिंहगड मध्ये शिक्षक दिनाचे औचित्य साधून नवीन शैक्षणिक धोरण या विषयावर वेबिनार संपन्न



पंढरपूर/प्रतिनिधी:  
एस. के. एन. सिंहगड कॉलेज ऑफ इंजिनिअरींगला महाविद्यालयात दि. ५ सप्टेंबर शिक्षक दिनाचे औचित्य साधून नाशिक इंडस्ट्रीयलचे संचालक महेश दाबक यांचे नवीन शैक्षणिक धोरण या विषयावर ऑनलाईन वेबिनारच संपन्न झाला असल्याची माहिती महाविद्यालयाचे प्राचार्य डॉ. कैलाश करांडे यांनी दिली. ५ सप्टेंबर हा दिवस डॉ. सर्वपल्ली राधाकृष्णन यांचा जन्मदिवस शिक्षक दिन म्हणून सर्वत्र मोठ्या उत्साहात साजरा करण्यात येतो. यावर्षी सर्वत्र कोरोना या संसर्गजन्य रोगाचा प्रादुर्भाव रोखण्यासाठी प्रशासनाच्या वतीने संचार बंदी घालण्यात आली आहे. शाळा व कॉलेज यांना सुट्टी असल्याने ५ सप्टेंबर ह्या शिक्षक दिनाचे

औचित्य साधून पंढरपूर सिंहगड अभियांत्रिकी महाविद्यालयातील शिक्षक व शिक्षकेतर कर्मचा-यांसाठी उद्योजक महेश दाबक यांचे ५ सप्टेंबर २०२० रोजी दुपारी २ वाजता नवीन शैक्षणिक धोरण या विषयावर ऑनलाईन वेबिनार घेण्यात आला.

या वेबिनारच्या सुरुवातीस महाविद्यालयाचे प्राचार्य डॉ. कैलाश करांडे यांनी सर्व शिक्षकांना शिक्षक दिनाच्या शुभेच्छा देऊन उद्योजक महेश दाबक यांचे स्वागत केले. ऑनलाईन वेबिनार मध्ये महेश दाबक यांनी सद्या देशाला गुणवत्ता शिक्षणाची गरज आहे. शैक्षणिक विकासाशिवाय आर्थिक प्रगती अशक्य आहे. नवीन शैक्षणिक धोरण हे संपूर्ण राष्ट्राचा विचार मांडले गेले. शैक्षणिक धोरणाचे विविध भाग, शालेय शिक्षण घेत असताना मानसिकता घडली पाहिजे, विद्यार्थ्यांनी शिक्षण घेण्याची इच्छा दाखवली तर शासनाकडून शिक्षण शिक्षण दिले जाते, उच्च शिक्षणातील महत्वाचे टप्पे, ऑनलाईन शिक्षण प्रणाली आदी विषयांवर महेश दाबक यांनी माहिती दिली. ह्या ऑनलाईन वेबिनार मध्ये १०० हून अधिक विद्यार्थी, शिक्षक व शिक्षकेतर कर्मचा-यांनी सहभाग नोंदविला असून सहभागी प्राध्यापकांनी विचारलेल्या प्रश्नांना महेश दाबक यांनी उत्तरे दिली. या कार्यक्रमाचे प्रस्ताविक, सूत्रसंचालन व आभार प्रदर्शन डॉ. स्वानंद कुलकर्णी यांनी केले.

## N. Contact

Dr. S G Kulkarni, Email- [swanand.kulkarni@sknscoe.ac.in](mailto:swanand.kulkarni@sknscoe.ac.in) Mobile : 7875212835

Prof. A. A. Rajguru, Email- [abhijit.rajguru@sknscoe.ac.in](mailto:abhijit.rajguru@sknscoe.ac.in) Mobile: 9890635581

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--