



## **Annual Report 2023-24 [SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY (C-8977)]**

### **A. About IIC Institute**

#### **Vision / Mission of IIC established at the Institute**

**Student-Society Connect:** To develop platform for students in order to understand societal issues and develop technological based innovative solution.

**Student -Technology Connect:** To organise seminars, workshops, expert talks and training programs for cell members.

**Student-Innovation-Entrepreneurship Development:** To inculcate responsibilities among the students, about the need of innovations, technological interventions and entrepreneurship development.

**Student-Innovative – Idea Exchange:** To create an enabling environment for the sharing of idea and resources within the knowledge ecosystem to identify problems and develop scientific and technological solutions.

#### **Journey of IIC established at the Institute**

The Shram Sadhana Innovation and Entrepreneurship Development Cell (SSIEDC) extend its activities to the department level to develop culture of Innovation, Incubation, Internship, Entrepreneurship and Start –up. It provides a platform to students to discuss the innovative ideas, identify the socio-technical issues, and convert their innovative ideas into commercially viable products. It is a platform for nurturing, encouraging and developing innovation and entrepreneurial skills among college students. It ventures in technology, engineering and other interdisciplinary areas with the expertise of reputed. The regular events like entrepreneurial talk series, workshops and seminars, brainstorming sessions and to arrange competitions of innovations have offered a good research culture in the institute.

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



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

Sr. No.	Name of Member	Member Type (Teaching/ Non-teaching / External Expert)	Key Role/ Position assigned in IIC
1.	Dr. Girish Kumar Patnaik	Teaching	President
2.	Dr. Sudhakar B. Pawar	Teaching	Vice President
3.	Dr. Manoj Patil	Teaching	Member, Start up Activity Coordinator
4.	Dr. V R Diware	Teaching	Member, ARIIA Coordinator
5.	Dr. P. H. Zope	Teaching	Convener , NIRF Coordinator Innovation Activity Coordinator
6.	Dr. P A Shirule	Teaching	Member
7.	Dr. Dnyaneshwer Kirange	Teaching	Member, IPR Activity Coordinator
8.	Er. Sandip S. Patil	Teaching	Member, Internship Activity Coordinator
9.	Dr. Prajitsen Damle	Teaching	Member
10.	Faroza Kazi	Teaching	Member, Social Media Coordinator
11.	Mr. Mahendrasing chauhan	Hardware Engineer	Member,

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

- Total No. of IIC Members - 11
- Total No. of IAs - 04
- Total No. of faculty Mentors From Portal - 04
- Pre-Incubation Units, If any - 01
- Incubation Units, If any - 01
- IP Facilitation Unit, If any - 03



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

### **Faculty and Student Skills enhancement bodies**

1. Language & Communication Skills
2. Life Skills
3. ICT / Computing Skills

### **Club Engaged in promotion of Innovation and Entrepreneurship in the campus**

1. Nature Club
2. Energy Club
3. Robo Club

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

- Number and Different types of I&E and IPR activities Conducted

### **1. IPR Activities Conducted by Dr. Manoj Patil**



**IPR ActivitiesPic 1**



**IPR ActivitiesPic 2**

**2. I&E activities Conducted by Mr. Yogesh Hebalkar, DGM, HR, Hitachi Astemo Brake Systems Ltd., India**





Similarly some activities are reported under the head of IIC activities and Self activities conducted

Program conducted under IIC  
A. Y. 2023-24

## Institute Innovation Council (IIC)

Program organized under IIC for Academic Year 2023-2024

<https://www.sscoetjalgaon.ac.in/ssiedc-cell/>

Sr No	Program Organized	Date	Document Attached
1.	Exposure and field visit for problem identification	20-09-2023	Exposure and field visit for problem identification
2.	National Innovation Day	16-10-2023	National Innovation Day
3.	Viksit Bharat@2047 Utsav	11-12-2023	Viksit Bharat@2047 Utsav
4.	Workshop on "Entrepreneurship and Innovation as Career Opportunity" Activity Report	05-09-2023	Workshop on "Entrepreneurship and Innovation as Career Opportunity" Activity Report



5.	My Story - Motivational Session by Successful Innovators	11-09-2023	My Story - Motivational Session by Successful Innovators
6.	National Pollution Day Celebration	2-12-2023	National Pollution Day Celebration
7.	Demonstration of Emerging Trends in Electronics Engineering	04-09-2023 to 07-09-2023	Demonstration of Emerging Trends in Electronics Engineering
8.	National Energy Conservation Day	14-10-2023	National Energy Conservation Day
9.	Inter Institutional Idea Hackathon	20-9-2023	Inter Institutional Idea Hackathon
10.	No Tobacco Pledge and poster competition on Republic Day Celebration	26-1-2024	No Tobacco Pledge and poster competition on Republic Day Celebration
11.	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development in Civil Engineer	8-2-2024	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development in Civil Engineer
12.	Problem Solution Fit - converted	12-09-2023	Problem Solution Fit - converted
13.	Infosys BMP CSR Skill Development Program	06-02-2024	Infosys BMP CSR Skill Development Program
14.	National Science Day 2024	28-02-2024	National Science Day 2024
15.	Learning Series organized under National Education Day for SSBT ASC students 2024	15 Feb 2024 to 8 Mar 2024	Learning Series organized under National Education Day for SSBT ASC students 2024
16.	Recent Trends Problem Designing and Solving conducted by Electronics Study Center	20-02-2024	Recent Trends Problem Designing and Solving conducted by Electronics Study Center
17.	Organization of one-day Field Visit on Bhagpur Dam and Study of Core cutter Testing	15-02-2024	Organization of one-day Field Visit on Bhagpur Dam and Study of Core cutter Testing
18.	My Story - Motivational Session by Successful Entrepreneur in Cyber Security	05-09-2023 to 16-10-2023	My Story - Motivational Session by Successful Entrepreneur in Cyber Security
19.	My Story - Motivational Session by Successful Entrepreneur for Global Trends in IT	08-02-2024	My Story - Motivational Session by Successful Entrepreneur for Global Trends in IT
20.	Workshop on Design Thinking, Critical thinking and Innovation Design	20-02-2024	Workshop on Design Thinking, Critical thinking and Innovation Design
21.	Environment Conservation on the occasion of National Youth Day	28-9-2023	Environment Conservation on the occasion of National Youth Day
22.	Intra Institutional Innovation Competition	30-1-2024	Intra Institutional Innovation Competition
23.	Organising Innovation & Entrepreneurship Outreach Program in Schools	28-02-2024	Organising Innovation & Entrepreneurship Outreach Program in Schools
24.	Enhanced Understanding: Participants gained a deeper understanding of the innovation	18-09-2024	Enhanced Understanding: Participants gained a deeper understanding of the innovation development process, TRL



	development process, TRL framework, and commercialization strategies		framework, and commercialization strategies
25.	Mentoring Event Business Plan and Modelling	09-02-2024 To 05-03-2024	Mentoring Event Business Plan and Modelling
26.	Workshop on Composting of Waste Management Treatment	06-10-2023	Workshop on Composting of Waste Management Treatment
27.	Health Check-up and Eye Check-up Camp Organized under International Women's Day	07-03-2024	Health Check-up and Eye Check-up Camp Organized under International Women's Day
28.	Exposure visit and Problem Identification for Atal Setu Bridge and Tunnel at Mumbai	26-02-2024	Exposure visit and Problem Identification for Atal Setu Bridge and Tunnel at Mumbai
29.	Enterprenur Talk on ESAF Small Finance Bank	28-03-2024	Enterprenur Talk on ESAF Small Finance Bank
30.	Field Visit Bitumin Plant	26-03-2024	Field Visit Bitumin Plant
31.	Celebration of Entrepreneur Day	20-02-2024	Celebration of Entrepreneur Day
32.	Organized Induction Program for First Year Student	8-8-2023 to 09-09-2023	Organized Induction Program for First Year Student
33.	How to Plan for Startup and Legal & Ethical steps	06-04-2024	How to Plan for Startup and Legal & Ethical steps
34.	Business Model Canvas	13-04-2024	Business Model Canvas
35.	Value Proposition Fit & Business Fit Workshop	13-04-2024	Value Proposition Fit & Business Fit Workshop
36.	Accelerators Incubation - Opportunities For Students & Faculties - Early stage Entrepreneurs workshop	15-04-2024	Accelerators Incubation - Opportunities For Students & Faculties - Early stage Entrepreneurs workshop
37.	Organization of Session on Lean Start-up & Minimum Viable Product Business - Boot Camp	16-4-2024	Organization of Session on Lean Start-up & Minimum Viable Product Business - Boot Camp
38.	Organization of Workshop on Prototype or Process Design and Development	16-4-2024	Organization of Workshop on Prototype or Process Design and Development
39.	Demo Day	15-04-2024 to 16-04-2024	Demo Day
40.	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	4-05-2024	Workshop on Intellectual Property Rights (IPRs) and IP management for start up
41.	Organising Innovation & Entrepreneurship Outreach Program in Schools Community	8-3-2024 to 9-3-2024	Organising Innovation & Entrepreneurship Outreach Program in Schools Community
42.	Celebration of National Technology Day	11-05-2024	Celebration of National Technology Day



43.	Celebration of World Intellectual Property Day	26-04-2024	Celebration of World Intellectual Property Day
44.	Celebration of Innovation Day	11-06-2024	Celebration of Innovation Day
45.	World Environment Day	05-06-2024	World Environment Day
46.	World entrepreneur day	08-07-2024	World entrepreneur day
47.	National Startup day	16-1-2024	National Startup day
48.	Organized Seminar on Power of Silicon Hydrogen Lithium and Neuroscience	09-09-2024	Organized Seminar on Power of Silicon Hydrogen Lithium and Neuroscience
49.	Workshop on Faculty Development Program on Python Programming	11-13 July 2024	Workshop on Faculty Development Program on Python Programming
50.	National Broadcasting Day	23-07-2024	National Broadcasting Day
51.	Creating and Engaging Trained Faculty and Student IIC Members, Innovation Ambassadors (IA) in IIC Institutions, and Rewarding Mechanisms for IAs	29-07-2024	Creating and Engaging Trained Faculty and Student
52.	Experts for Mentorship Support	28-02-2024	Experts for Mentorship Support
53.	One day Workshop on Hands-on AI Tool	29-07-2024	One day Workshop on Hands-on AI Tool
54.	Creating and Managing YUKTI Innovation and IPR Repository	2-08-2024	Creating and Managing YUKTI Innovation and IPR Repository
55.	Celebration of Independence Day Azadi ka Amrut Mohotsav	15-08-2024	Celebration of Independence Day Azadi ka Amrut Mohotsav
56.	4th Anniversary of National Education Policy (NEP) 2020	29-07-2024 to 31-07-2024	4th Anniversary of National Education Policy (NEP) 2020
57.	Orientation cum Refreshers' Session on Institution's Innovation Council Objectives, Structure, Operation for IIC Institutions	5-8-2024	Orientation cum Refreshers' Session on Institution's Innovation Council Objectives, Structure, Operation for IIC Institutions
58.	Strengthening IIC Linkages with ATLS and SICs in Schools and the Framework for Providing Mentorship and Guidance	31-07-2024	Strengthening IIC Linkages with ATLS and SICs in Schools and the Framework for Providing Mentorship and Guidance
59.	Capacity Building Program	13-03-2024 to 6-4-2024	Capacity Building Program
60.	National Space Day	23-08-2024	National Space Day
61.	Annual Report 2023-24	29-08-2024	Annual Report 2023-24
62.	SIH 2024 Awareness Session with Dr. Abhay Jere	27-08-2024	SIH 2024 Awareness Session with Dr. Abhay Jere
63.	Annual Report	4-9-2024	Annual Report
64.	Add-on course on Software Essential Development	26-8-2024 to 28-08-2024	Add-on course on Software Essential Development
65.	Hands-On Fundamentals Mat lab and Electrical Auto-CAD	26-08-2024 to 31-08-	Hands-On Fundamentals Mat lab and Electrical Auto-CAD





		2024	
66.	Workshop on Mechanical Engineering Skill Orientation	26-08-2024 to 31-08-2024	Workshop on Mechanical Engineering Skill Orientation
67.	Celebration of World Entrepreneur Day	14-08-2024	Celebration of World Entrepreneur Day
68.	Awareness Session on GATE 2025 Examination	4-9-2024	Awareness Session on GATE 2025 Examination

- No. of student's & faculty ideas generated
- No. of student's & faculty Innovation/prototypes developed
- No. of IPs generated, published and granted
- No. of Student & Faculty Start-ups/Ventures established.
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR
- No. of Technology Transfer and Commercialisation happened

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

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

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

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

**1. SSBT Girls Hostel Attendance Form with GEO Tag and Location Capture System: Developed and contributed by Principal Dr. G. K. Patnaik and Computer Department**

#### **System Overview:**

- A system designed for SSBT Girls Hostel to monitor student attendance.
- Incorporates GEO tagging to ensure the location where the attendance is marked.
- Captures and stores location data, helping verify the presence of students at the hostel.



### Key Features:

- **Real-time Location Tracking:** Captures location when students sign in/out.
- **Attendance Form:** Digital form linked with the GEO tag for precise tracking.
- **Security & Compliance:** Enhances safety and adherence to hostel policies.

### Usage:

- Used for daily check-ins and monitoring of students within the hostel premises.
- Ensures students are where they are supposed to be during designated times.

## 2. Student Education Verification System: Developed by Dr. A. D. Waghmare and Mr. Mohit Patil under the guidance of Principal Dr. G. K. Patnaik

### Purpose:

- This system automates the verification process of student educational records for institutions and employers.

### Key Features:

- **Automated Verification:** Validates academic credentials against institutional databases.
- **Secure Data Handling:** Ensures data privacy and integrity during the verification process.
- **Real-time Access:** Provides immediate verification results, reducing time and effort for both requestors and institutions.

### Usage:

- Employers use it to verify qualifications during recruitment.
- Educational institutions use it for alumni records verification.

## 3. Student Online System: Developed by Mr. R. H. Patil under the guidance of Principal Dr. G. K. Patnaik

### Purpose:

- A digital platform for managing various student-related activities, including enrollment, course registration, grades, and communication.



### Key Features:

- **Course Management:** Allows students to register for courses, access schedules, and track academic progress.
- **Communication Hub:** Facilitates communication between students, faculty, and administration.
- **Resource Access:** Provides access to study materials, assignments, and exam schedules.

### Usage:

- Students use it to manage their academic journey.
- Institutions use it for centralized record-keeping and streamlined communication.

### J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

- ARIIA – participation and Rank
- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation
- Smart India Hackathon etc.

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

**Youtube:** SSBT's WORLD - link: [https://www.youtube.com/results?search\\_query=ssbt+world](https://www.youtube.com/results?search_query=ssbt+world)

**Facebook :** SSBT's COET Bambhori Jalgaon - Link:<https://www.facebook.com/SSBTCOETOfficial/>

**Instagram** <https://www.instagram.com/coetjalgaon/>

### L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell - NIL

### M. Images

1. Under school connect program





## 2. Internal Hackathon



## 3. Achieving Problem-Solution Fit & Product-Market Fit



#### 4. National Science Day













## 5. Visit to plants



## 6. Environment protection and



## 7. School Connect



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