



ACTIVITY REPORT

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Two day workshop on  
**PRINTED CIRCUIT BOARD DESIGN AND MANUFACTURING**  
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Organised by  
Institution's Innovation Council – SUK  
Department of Technology, Shivaji University, Kolhapur.  
Electronics & Telecommunication Engineering program

In collaboration with the  
SUK Research and Development Foundation (SUKRDF)  
Shivaji University Centre for Innovation, Incubation and Linkages (SCIIL)

Venue:  
Auditorium, Department of Technology,  
Shivaji University, Kolhapur

Day and Date:  
Friday , Saturady – 24<sup>th</sup> and 25<sup>th</sup> January 2025, 10.00 am to 06.00 pm



**IIC ID: IC202218525**

## INVITATION



### SHIVAJI UNIVERSITY, KOLHAPUR

Institution's Innovation Council

In collaboration with

Shivaji University Centre for Innovation, Incubation and Linkages (SCIL)

&

SUK Research and Development Foundation (SUKRDF)

Jointly organise a workshop on

### "PRINTED CIRCUIT BOARD DESIGN AND MANUFACTURING"

Resource Person

**Mr. Surajkumar Kalsait**

Chief Technical Officer, Indium Tech, Kolhapur

\*\*\*\*\*

Chairman

**Prof. (Dr.) D.T. Shirke**

Vice Chancellor, Shivaji University

\*\*\*\*\*

Guest of Honor

**Prof. (Dr.) P.S. Patil,**

Pro Vice Chancellor, Shivaji University

\*\*\*\*\*

In the Presence of

**Prof. (Dr.) S.D. Delekar,**

Director IIL & Vice President IIC-SUK



**Day & Date** – Friday, Saturday 24<sup>th</sup> and 25<sup>th</sup> January 2025

**Time** – 10.00 am to 06.00 pm

**Venue** – Department of Technology, Shivaji University, Kolhapur – 416004.

**Prof. (Dr.) S. D. Delekar**

Director, IIL  
Hon. Vice-President, IIC-SUK

**Dr.V.N. Shinde**

Hon. Registrar,  
Shivaji University,  
Kolhapur

**Prof. (Dr.) P. S. Patil**

Hon. Pro-Vice-Chancellor  
Hon. President, IIC-SUK

**Prof. (Dr.) D. T. Shirke**

Hon. Vice Chancellor  
Head of the IIC-SUK

**Er. H. C. Pandit**

Coordinator,  
IIC SUK

**Dr. S.B. Chavan**

Program Head  
Electronics &  
Telecommunication  
Engineering

**Prof. (Dr.) P. D. Raut**

CEO, SUK Research and  
Development Foundation

**Prof. (Dr.) A.B. Kolekar**

I/C Director,  
Department of Technology  
Convener, IIC SUK

<b>Title of the event:</b>	Printed circuit board design and manufacturing
<b>Type of event:</b> (seminar/workshops/FDP/ STPP/conference/Training/ Alum talks, etc.):	Two day workshop
<b>Level:</b>	II
<b>Program theme:</b>	To train the students for preparation of printed circuit board.
<b>Day and Date of the event:</b>	Friday , Saturday – 24 <sup>th</sup> and 25 <sup>th</sup> January 2025, 10.00 am to 06.00 pm
<b>Objectives of the event</b>	<ol style="list-style-type: none"> <li>1) To train the students for manufacturing the printed circuit boards</li> <li>2) To give real and hands on experience for schematic, layout and PCB preparation</li> <li>3) To promote the PCB manufacturing for entrepreneurship</li> </ol>
<b>Key Outcomes of The Activity</b>	<ol style="list-style-type: none"> <li>1) Participants understood the schematic, layout preparation.</li> <li>2) Participants understood operating the open source software KiCAD</li> <li>3) Students prepared the 12V basic power supply</li> </ol>

<b>Participant details:</b>	The workshop was open for Second Year B. Tech E&TC students
<b>A. Students:</b>	Total: 67
<b>B. Faculty:</b>	Total: 08
<b>Photographs:</b>	Attached at the end of the report
<b>Media coverage:</b>	-
<b>Feedback received from the guests/participants</b>	Participants expressed that they can operate KiCAD software for preparation of Schematic and layout. Further they told that they can manufacture the printed circuit boards for projects.

### ❖ **Introduction :**

The Department of Technology at Shivaji University organized a two day workshop titled "*Printed circuit board design and manufacturing*" for students of Second year Electronics and Telecommunication Engineering. The workshop aimed to train the students for operating the KiCAD software for schematic and layout design and prepare a printed circuit board for 12V power supply. The power supply can be used for project work or for any application. The workshop was exclusively organized for students of S. Y. B. Tech E&TC. The event was conducted in collaboration with Shivaji University's Center for Innovation Incubation and Linkages (SCIIL), Research and Development Foundation (SUKRDF), and the Department of Electronics and Telecommunication Engineering.

Mr. Surajkumar Kalsait, Chief Technology Officer at Indium Tech Kolhapur, was invited as the resource person. He conducted hands on training sessions for preparing the printed circuit boards. The workshop received valuable guidance and support from Hon. Vice-Chancellor Prof. Dr. D.T. Shirke, Hon. Pro-Vice Chancellor Prof. Dr. P.S. Patil, and Hon. Registrar Dr. V.N. Shinde.

This initiative provided an excellent opportunity for students to gain practical exposure to advanced manufacturing technologies and highlighted the university's commitment to promotion of innovation and skill development through collaborative and industry-driven learning experiences.

### ❖ **Organizing Institutions:**

The workshop was jointly organized by the Electronics & Telecommunication engineering program of Department of Technology, in collaboration with SUKRDF (Shivaji University, Research and Development foundation) and SCIIL (Shivaji University center for incubation, innovation and linkages). Total 67 students from Electronics and Telecommunication Engineering program appeared for this workshop.

### ❖ **Importance of the Workshop:**

The workshop on "*Printed circuit board design and manufacturing*" held at the Department of Technology, Shivaji University, was a significant program aimed at promotion of technical skill development in printed circuit board , innovation and practical learning among students. The following points highlight the importance of the workshop:

- Practical exposure to KiCAD software and PCB design machinery for students
- Skill enhancement for students
- Bridging the academia-industry gap
- Promoting innovation and creativity
- Career opportunities
- Awareness regarding creating start up in PCB Design and manufacturing
- Holistic development

**Dr. A.B. Kolekar**, I/c Director, Department of Technology at Shivaji University welcomed participants and resource persons.

**Dr. S.B. Chavan**, Program Head of the Electronics and Telecommunication Engineering Department of Department of Technology at Shivaji University delivered introductory speech of the workshop and described the objective of the workshop.

❖ **Acknowledgements:**

The organisers extend their heartfelt gratitude to the university leadership, including Prof. (Dr.) D. T. Shirke, Hon. Vice Chancellor, Prof. (Dr.) P. S. Patil, Dr V. N. Shinde, Prof. (Dr.) S. D. Delekar, (Director, Innovation, Incubation and Linkages), Prof. (Dr.) P. D. Raut (CEO, SUKRDF), Prof. (Dr.) A.B.Kolekar (Convener, IIC SUK), Dr. S. B. Chavan, Program Head of B. Tech Electronics & Telecommunication Engineering, member of IIC and the staff members of SUKRDF and SCIL.

**Photographs**

**DAY 1**



**Figure 1- Day-I : Inauguration session and welcome**



**Figure 2- Day 1: Group photos**



**Figure 3- Day 1: Speech by Director**



**Figure 4- Day 1: Schematic and layout preparation**



**Figure 5- Day 2: Resource person activity**



**GPS Map Camera**  
**Kolhapur, Maharashtra, India**  
 M7c6+24q, Old Pune-bangalore Hwy, Shivaji University  
 Kolhapur, Vidya Nagar, Kolhapur, Maharashtra 416004, India  
 Lat 16.670264° Long 74.260411°  
 25/01/25 04:03 PM GMT +05:30

**Figure 6- Day 2: Prototype developed by students**



**GPS Map Camera**  
**Kolhapur, Maharashtra, India**  
 M7c6+24q, Old Pune-bangalore Hwy, Shivaji University  
 Kolhapur, Vidya Nagar, Kolhapur, Maharashtra 416004, India  
 Lat 16.670265° Long 74.26041°  
 25/01/25 03:59 PM GMT +05:30

**Figure 7- Day 2: Prototype developed by students**

# ATTENDANCE

Day 1- Friday 24<sup>th</sup> January 2025



## Shivaji University, Kolhapur.

### Institution's Innovation Council

(IIC ID: IC202218525, AISHE Code: U-0325)

### Programme Attendance Sheet

**Name of Program:** Printed Circuit Board Design and manufacturing

**Program Type:** Expert talk / Exposure visit/ Mentoring Session /  
(Tick mark) Conference / Seminar / Workshop / Competition / Bootcamp

**Program Theme:** IPR & Technology Transfer / Innovation & Design Thinking /  
(Tick mark) Entrepreneurship and Startup / Pre incubation & Incubation Management

**Mod of delivery:** Online / Offline / Hybrid **Duration (Hrs.) : 6.00 hrs**

**Participants:** Second Year B. Tech Electronics & Telecomm. Engineering students

**Day, Date, Time:** Friday, 24/01/2025 , 10:00 am to 6:00 pm

**Venue:** Auditorium, Department of Technology

**Organized by (Name of Dept.)-** Electronics & Telecommunication Engineering , Department of Technology

**Programme coordinator:** Dr. S. B. Chavan

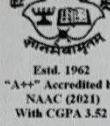
Sr. No.	Name of participant	Class & Branch	Mobile No.	Signature
1	Anuja Kawade	E & TC	9699302690	Anuja
2	Anuja Divate	E & TC	8055338472	Adivate
3	Saniya Patil	E & TC	8080301785	Saniya
4	Akshata Masal	E & TC	9673737299	Akshata
5	Aditi Patil	E & TC	7385326046	Aditi
6	Mansi Kamble	E & TC	7385699319	Kamble
7	Archana Misal	E & TC	9921808372	Archana
8	Sakshi Shingade	E & TC	9503073465	Sakshi
9	Shreeganesh Gharghe	E & TC	7058719111	Gharghe
10	Tunaid Ahmed	E & TC	8492850468	Tunaid
11	Shakshi Devi	E & TC	9103195989	Shakshi
12	Sunaina Hankare	E & TC	7821015649	Hankare

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INSTITUTE'S  
INNOVATION  
COUNCIL  
(Ministry of Education initiative)

विकसित भारत  
अभियान  
1947 TO 2047



MoE's  
INNOVATION CELL  
(GOVERNMENT OF INDIA)  
Estd. 1962  
"A++" Accredited by  
NAAC (2021)  
With CGPA 3.52



MoE's  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



SCIL  
INNOVATE. INCUBATE. LINK



Sr. No.	Name of participant	Class & Branch	Mobile No.	Signature
13	Pradnya Dhere	EnTC	9960071388	<i>Pradnya</i>
14	Sakshi Babannavar	EnTC	7821963798	<i>Sakshi</i>
15	Pallavi shinde	E&TC	7414911922	<i>Pallavi</i>
16	Sakshi Jadhav	E&TC	9284616558	<i>Sakshi</i>
17	Sonam Khatavakar	ENTC	9096292890	<i>Sonam</i>
18	Vaishnavi sharma	E&TC	7558235411	<i>Vaishnavi</i>
19	Tanvi Patil	E&TC	9890242230	<i>Tanvi</i>
20	Prachiti sutar	E&TC	9511843416	<i>Prachiti</i>
21	Hryucha Patil	E&TC	9578967578	<i>Hryucha</i>
22	Neha Patil	E&TC	7058072490	<i>Neha</i>
23	Sampada Choudhari	E&TC	8446888108	<i>Sampada</i>
24	Pushplata Talap	E&TC	8149484224	<i>P.V. Talap</i>
25	Arati Ghorpade	E&TC	9834661939	<i>Arati</i>
26	Yash Patil	E&TC	8767425156	<i>Yash</i>
27	swarali Patil	E&TC	9172733510	<i>swarali</i>
28	shrutika Harkare	E&TC	8459227013	<i>shrutika</i>
29	Prachi vibhute	E & TC	7821036319	<i>Prachi</i>
30	Rohan Patil	ENTC	7972676199	<i>Rohan</i>
31	Pratik Jadhav	E&TC	7387445315	<i>Pratik</i>
32	sanika Madarkhandi	E&TC	9834876404	<i>Sanika</i>
33	Saurabh Gate	E&TC	9168772274	<i>Saurabh</i>
34	Aniket shelake	E&TC	7620616541	<i>Aniket</i>
35	Yogesh Patil	E&TC	8149602156	<i>Yogesh</i>
36	Sahil Biraje	E&TC	7020539837	<i>Sahil</i>
37	Ganesh Thombare	E & TC	8605183538	<i>Ganesh</i>



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education, Government of India)

विकसित भारत  
अभियान  
1947 TO 2047



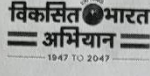
MoE's  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



Sr. No.	Name of participant	Class & Branch	Mobile No.	Signature
38	Yash Jadhav	E & TC	8624954068	<u>YJ</u>
39	Anirudha Akiwate	E & TC	8669006583	<u>Anirudha</u>
40	Satej Ingale	E & TC	9021439780	<u>S</u>
41	Abdul Bassat Sayyad	E & TC	9175770888	<u>Basel</u>
42	Guruprasad Patil	E & TC	9423677741	<u>GSPatil</u>
43	Vedant Bhoi	E & TC	9371888871	<u>Vedant</u>
44	Abhay Chavan	E & TC	9370653203	<u>Abhay</u>
45	Shreevardhan Shinde	E & TC	9119492995	<u>Shinde</u>
46	Umesh Kumbhar	E & TC	8530413750	<u>Umesh</u>
47	Chaitanya Anarase	E & TC	8856095359	<u>chaitanya</u>
48	Samarth Mali	E & TC	8010181453	<u>Smarth</u>
49	Snehal Sawant	E & TC	9766294525	<u>Snehal</u>
50	Sanika Koshti	E & TC	7499947631	<u>Koshti</u>
51	Gargee Bawaskar	E & TC	8080905320	<u>Bawaskar</u>
52	Bhushan Chandane	E & TC	8446320402	<u>B</u>
53	Harshada Londhe	E & TC	7020947483	<u>HLondhe</u>
54	Prathmesh Sawant	E & TC	9423665872	<u>P.Sawant</u>
55	Pruthviraj Bagal	E & TC	9970508525	<u>Pruthviraj</u>
56	Shubham Masgounde	E & TC	8080672857	<u>Shubham</u>
57	Harshal Desai	E & TC	7262076980	<u>Desai</u>
58	Vijay Nemishte	E & TC	7387921093	<u>Vijay</u>
59	Tanmay Fatale	E & TC	9307374710	<u>Fatale</u>
60	Pranav Shelar	E & TC	9049092346	<u>Pranav</u>
61	Noor Shaikh	E & TC	7385311236	<u>Noor</u>



Day 1- Friday 25<sup>th</sup> January 2025



## Shivaji University, Kolhapur.

### Institution's Innovation Council

(IIC ID: IC202218525, AISHE Code: U-0325)

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**Participants:** Second Year B. Tech Electronics & Telecomm. Engineering students

**Day, Date, Time:** Saturday, 25/01/2025, 10:00 am to 6:00 pm

**Venue:** Auditorium, Department of Technology

**Organized by (Name of Dept.)-** Electronics & Telecommunication Engineering, Department of Technology

**Programme coordinator:** Dr. S. B. Chavan

Sr. No.	Name of participant	Class & Branch	Mobile No.	Signature
1	Akshata Masal	E&TC	9673737299	AKShata
2	Aditi Patil	E&TC	7385326046	Aditi
3	Archana Misal	E&TC	9921803372	अर्चना
4	Sakshi Shingade	E&TC	9503073465	Sakshi
5	Shreeganesh Gharghe	E&TC	7058719111	gharghe
6	Sunaina Hankare	EnTC	7821015649	Hankare
7	Pradnya Dhare	E&TC	9960071388	Pradnya
8	Sakshi Babannavas	EnTC	7821963798	Sakshi
9	Pallavi Shinde	EnTC	7414971922	Pallavi
10	Sakshi Jadhav	E&TC	9284616558	Sakshi
11	Sonom Khatavakar	EnTC	9096292890	Sonom
12	Neha Patil	E&TC	7058072499	Neha Patil

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