



# Jansons Institute of Technology

Karumathampatti, Coimbatore-641 659.



## Institutions Innovation Council

In association with

Entrepreneurship Development Cell & IETE Student Forum

Organized Workshop on

“PCB design and manufacturing process using EDA tools”

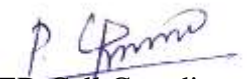
### Agenda

Date : 20.05.2022-21.05.2022

Venue :EDC Lab

Timing : 09.30 – 04:15 PM

S.No	Timing	Event Name	Presented by
1	09:15 AM	Welcome Address	Dr.P.Gowtham, JIT - ED Cell Coordinator.
2	09:20AM	Chief Guest Address	P. Ruba P - II Year ECE
3	9:25 AM	PCB design and manufacturing process using EDA tools ” Followed by Question and Answer Session.	Dr.P.Gowtham ASP/ECE/JIT
4	04:10 PM	Vote of Thanks	Mr.S.Gokul Krishnan Final year ECE

  
ED Cell Coordinator  
(Dr.P.Gowtham)



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## Event Report

**Title** : PCB Design And Manufacturing Process Using EDA Tools  
**Date (from & to)** : 20/05/2022 to 21/05/2022      **Time (from & to)** : 9:00AM to 4:15PM  
**Venue (offline)** : ECE – Electronics Devices and Circuits Laboratory  
**Organised by** : Entrepreneurship Development Cell  
**In association with** : JIT - Institution Innovation Cell  
**Student Activity** : Yes / No

## Speaker Details

**Name** : Dr.P.Gowtham,  
**Designation** : Associate Professor,  
**Affiliation** : Jansons Institute of Technology, Karumathampatti,  
Coimbatore.  
**Topic** : “PCB DESIGN AND MANUFACTURING PROCESS  
USING EDA TOOLS”



### JIT Website



<https://www.facebook.com/250442415535499/photos/a.450285145551224/1098424314070634/>



<https://www.instagram.com/p/CdaKPXCLPdR/>



[https://twitter.com/JIT\\_Offl/status/1524284560632328193/photo/1](https://twitter.com/JIT_Offl/status/1524284560632328193/photo/1)

## Event Objective

- To provide knowledge about complete PCB designing using IDE tool and hands on training to PCB Manufacturing Process.
- To make the students aware of different softwares and hardwares used in combination with PCB boards.
- To enhance student's practical & technical skill and to make them well-matched with industry.

## ent Summary

The department of ECE in association with Entrepreneurship Development Cell (EDCell) organised a two-days workshop on "**PCB Design and Manufacturing Process Using EDA Tools**" at the network laboratory on 20th & 21st of May 2022. The duration of this workshop was two days, with seven hour session each day in a total of fourteen hours properly divided into different hands on sessions.

The entire participants were divided into two batches of 25 students each and parallely both the software and hardware sessions were conducted on both the days. PCBs have a vital role in this modern day as technology is improving daily. An effective Printed Circuit Board design can help in reducing the chances of errors and also the possibilities of short circuit. These circuit boards are the foundation of electronic products as they are used in almost every electronic device.

The event was inaugurated by the **Dr.G. Vetrichelvi, Professor & Head of Department of ECE** during her speech stressed the importance of hands on training and its benefits. **Mrs.P.Eswari,ASP/ECE** presented her on Analog Electronics & Digital Electronics. After the lunch break, **Mrs. Kowsalya AP/ECE** spoke about using IC555 Astable Multivibrator Schematic and layout Design. The final session of the day was handled by **Ms.M.Surya AP/ECE** She spoke in detail about Using IC555 Astable Multivibrator Schematic and layout Design.

On the first session of the Day 2. **Dr.P.Gowtham,ASP/ECE** gave an introduction and demonstrated Regulated power Supply Design, Schematics, Library and Layout Design. In the second session, **Mrs.Manothini,AP/ECE**, assigned mini projects to students. After the lunch break fabrication testing was done with assistance from lab instructors. Finally, objective type test was conducted to evaluate the attainment level of the students. The event ended with question and session and feedback session. The afternoon session of Hands-on started at 1:30. P.M., where the participants are provided with laboratory sessions on Schematic design & PCB layout design on Express PCB design. The participants also tried various demo circuits provided.

Feedbacks regarding workshop are provided by various students. All the students responded that they have learned and had hands on experience in designing a PCB. They were very excited about participation in this workshop and requested for more workshops in similar way so that they can simultaneously gain the practical knowledge.

The vote of thanks & concluding speech to motivate the student to participate in such workshop was given by the Entrepreneurship Development Cell Coordinator of the Workshop, **Dr.P. Gowtham, ASP/ECE/JIT**. He thanked the management of Jansons Institute of Technology, Principal, Vice Principal, Director and Head of Department of Electronics and communication Engineering and the entire faculty of ECE department, JIT Entrepreneurship Development Cell for extending their continuous and valuable support in organizing and conducting these kind of workshops. Special Thanks are extended to the office bearers of Entrepreneurship Development Cell, for extending their enduring support and encouragement.

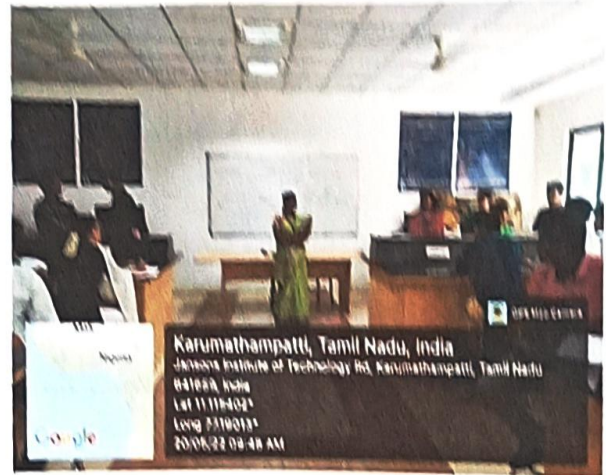
### Revenue Generated

- Total 40 Student Members Participated,
- Each student paid Rs: 150/- Kit Provided to the Students,
- **Total Amount Rs : 6,000/-**

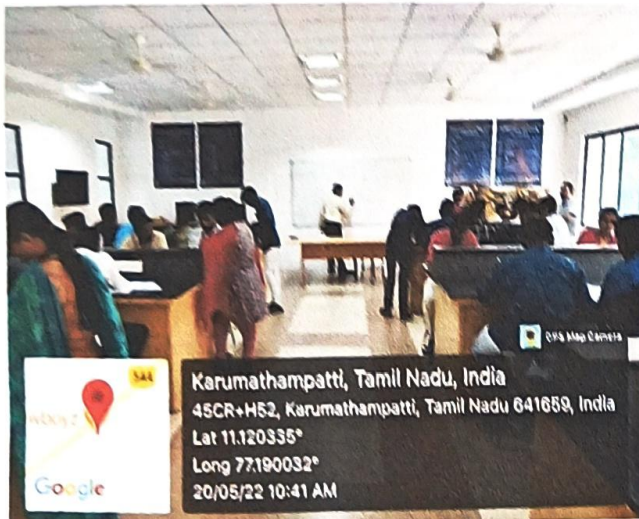
## Event Photographs



Workshop Flyer



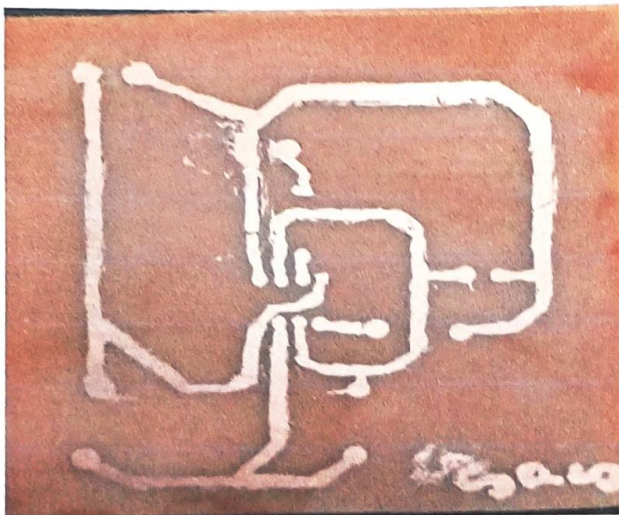
Dr.G.Vetrichelvi,HOD/ECE, Address the Gathering



Schematic and Layout Design by  
 Dr.P.Gowtham/ASP/ECE.



Debugging and Testing Demonstrated by  
 Mrs.P.Eswari/ASP/ECE.



PCB Lay Out Design



Workshop Certificate

### Event Outcomes

- From this Workshop Students have learned how to Design a circuit, Solder and test simple electronic circuits.
- How to Assemble and test simple electronic components on PCB.
- It also helped them to learn about fundamentals of Printed Circuit boards designing.
- Students can able to design their own Printed Circuit boards.


### Event Feedback

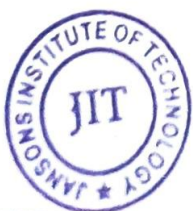
How would you rate the event in terms of preparation, flow, and content?	Excellent  4.5 Very Good  3.5 Good 0 Fair 0
The content and activities of the event has increased my knowledge.	Strongly Agree  4.5 Agree  4.3 Neutral 0 Disagree 0
How would you rate the speaker in terms of knowledge and presentation?	Excellent  5 Very Good  3.5 Good 0 Fair 0
Overall experience of the event.	Very Satisfied  4.5 Satisfied  3 Neutral  1 Dissatisfied 0
Suggestion for Improvements (If any)	Students feel verymuch happy Students requested to conduct 3 days.

### No. of Participants / Benefices

Total (Participants / Benefices)	Students	Faculty	Students (Outside institution)	Faculty (Outside institution)
44	40	04	-	-

Date of report submission: 23/05/2022.

  
**Faculty Coordinator**  
 (Dr.P.Gowtham)



  
**Head of Department**  
 ( Dr.G.Vetrichelvi)  
 Head of the Department  
 Department of Electronics &  
 Communication Engineering  
**Jansons Institute of Technology**  
 Karumathampatti, Coimbatore 641 659

  
**Principal**  
**Dr.V.Nagarajan**  
**PRINCIPAL**  
 Jansons Institute of Technology  
 Coimbatore - 641 659



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JIT EDC



## Two days' workshop on "PCB Design using EDA Tools - Hands on Training"

### PARTICIPANTS ATTENDANCE

Sl. No.	Register No.	Name	Year & Department	20.05.2022		21.05.2022	
				FN	AN	FN	AN
1.	711120106001	Aakula manohar Reddy	II & E.C.E-A	<i>manohar</i>	<i>manohar</i>	<i>manohar</i>	<i>manohar</i>
2.	711120106002	Abishek G	II & E.C.E-A	<del><i>Abishek</i></del>	<del><i>Abishek</i></del>	<del><i>Abishek</i></del>	<del><i>Abishek</i></del>
3.	711120106003	Aitha Ramesh	II & E.C.E-A	<i>A.Ramesh</i>	<i>A.Ramesh</i>	<i>A.Ramesh</i>	<i>A.Ramesh</i>
4.	711120106004	Alampally sai Neeraj	II & E.C.E-A	<i>Neeraj</i>	<i>Neeraj</i>	<i>Neeraj</i>	<i>Neeraj</i>
5.	711120106005	Alapaka kavya chandrewari	II & E.C.E-A	<i>A.Kavya</i>	<i>A.Kavya</i>	<i>A.Kavya</i>	<i>A.Kavya</i>
6.	711120106006	Ambati sri Deepthi	II & E.C.E-A	<del><i>Ambati</i></del>	<del><i>Ambati</i></del>	<del><i>Ambati</i></del>	<del><i>Ambati</i></del>
7.	711120106007	Arangala Hari Prem	II & E.C.E-A	<i>A.Haripr</i>	<i>Haripr</i>	<i>Haripr</i>	<i>Haripr</i>
8.	711120106009	Ashwin kumar PA	II & E.C.E-A	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>	<i>Ashwin</i>
9.	711120106010	<del><i>Ashwin</i></del> Avisala madhuri	II & E.C.E-A	<i>Amma</i>	<i>Amma</i>	<i>Amma</i>	<i>Amma</i>
10.	711120106011	Balaji P	II & E.C.E-A	<i>P.Balaji</i>	<i>P.Balaji</i>	<i>P.Balaji</i>	<i>P.Balaji</i>
11.	711120106012	Bandaru manoj	II & E.C.E-A	<i>B.Manoj</i>	<i>B.Manoj</i>	<i>B.Manoj</i>	<i>B.Manoj</i>
12.	711120106017	chilaka Leelavathi	II & E.C.E-A	<i>Leelavathi</i>	<i>Leelavathi</i>	<i>Leelavathi</i>	<i>Leelavathi</i>
13.	711120106019	chinameda manikanta	II & E.C.E-A	<i>Manikanta</i>	<i>Manikanta</i>	<i>Manikanta</i>	<i>Manikanta</i>
14.	711120106020	Damineni Harwanth	II & E.C.E-A	<del><i>Harwanth</i></del>	<del><i>Harwanth</i></del>	<del><i>Harwanth</i></del>	<del><i>Harwanth</i></del>
15.	711120106021	Dasari Sankirithana	II & E.C.E-A	<i>Sankirithana</i>	<i>Sankirithana</i>	<i>Sankirithana</i>	<i>Sankirithana</i>
16.	711120106023	Devata Manichandra	II & E.C.E-A	<i>D.Manichandra</i>	<i>D.Manichandra</i>	<i>D.Manichandra</i>	<i>D.Manichandra</i>
17.	711120106024	E. Devendar Reddy	II & E.C.E-A	<i>Devendar</i>	<i>Devendar</i>	<i>Devendar</i>	<i>Devendar</i>
18.	711120106027	Gayathri M	II & E.C.E-A	<i>Gayathri</i>	<i>Gayathri</i>	<i>Gayathri</i>	<i>Gayathri</i>
19.	711120106029	Gowtham S	II & E.C.E-A	<i>S.Gowtham</i>	<i>S.Gowtham</i>	<i>S.Gowtham</i>	<i>S.Gowtham</i>
20.	711120106030	Gowtham Muthu k	II & E.C.E-A	<i>Gowtham</i>	<i>Gowtham</i>	<i>Gowtham</i>	<i>Gowtham</i>
21.	711120106031	G. Praveen kumar Reddy	II & E.C.E-A	<i>Praveen</i>	<i>Praveen</i>	<i>Praveen</i>	<i>Praveen</i>
22.	711120106032	Gundavarapu Krishna Sanjay	II & E.C.E-A	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>
23.	711120106034	Gunturu Kiran	II & E.C.E-A	<i>Kiran</i>	<i>Kiran</i>	<i>Kiran</i>	<i>Kiran</i>
24.	711120106036	Gunupati Rakesh Reddy	II & E.C.E-A	<i>Rakesh</i>	<i>Rakesh</i>	<i>Rakesh</i>	<i>Rakesh</i>
25.	711120106037	Jrinki Naga jyoti swaroop	II & E.C.E-A	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>



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Sl. No.	Register No.	Name	Year & Department	20.05.2022		21.05.2022	
				FN	AN	FN	AN
26.	711120106040	JOLIN . J	II & E.C.E-A	[Signature]	[Signature]	[Signature]	[Signature]
27.	711120106041	Joy prakashrai .J	II & E.C.E-A	Joyraj	Joyraj	Joyraj	Joyraj
28.	711120106042	Kalaiselvi . S	II & E.C.E-A	S.S.kala	S.S.kala	S.S.kala	S.S.kala
29.	711120106044	Koneti Sai Mohan	II & E.C.E-A	Sai	Sai	Sai	Sai
30.	711120106045	Lakkireddy Ravi chandra Raddy	II & E.C.E-A	Ravi	Ravi	Ravi	Ravi
31.	711120106301	Dakshana . R	II & E.C.E-A	[Signature]	[Signature]	[Signature]	[Signature]
32.	711120106303	Pracilladisi . S	II & E.C.E-A	[Signature]	[Signature]	[Signature]	[Signature]
33.	711120106304	Shiny Pearlina . S	II & E.C.E-A	Shiny	Shiny	Shiny	Shiny
34.	711120106046	Logananth . K	II & E.C.E-B	K. Log	K. Log	K. Log	K. Log
35.	711120106059	Neralla Harish	II & E.C.E-B	Haris	Haris	Haris	Haris
36.	711120106061	Pabbati suresh kumar	II & E.C.E-B	Suresh	Suresh	Suresh	Suresh
37.	711120106076	Seelam sree klavya	II & E.C.E-B	Seelam	Seelam	Seelam	Seelam
38.	711120106087	Vangapandu kushal	II & E.C.E-B	Kushal	Kushal	Kushal	Kushal
39.	711120106088	Vanguru kirti Reddy	II & E.C.E-B	V.k.r	V.k.r	V.k.r	V.k.r
A.D	711120106058	J.NARESH PRASAD	II & E.C.E -B	J.n	J.n	J.n	J.n

Certified that all the students/faculty participated in the event.

Date:21/05/2022.

21/05/22  
Faculty Coordinator  
(Dr.P.Gowtham,ASP/ECE)