

	S J P N Trust's		ECE Dept.
	Hirasugar Institute of Technology, Nidasoshi		IIIC, ECSA
	<i>Inculcating Values, Promoting Prosperity</i>		Workshop
	Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi. Accredited at 'A' Grade by NAAC Programmes Accredited by NBA: CSE, ECE, EEE & ME.		2021-22 (Odd)

Date: 13/12/2021

Notice

It is hereby informed that workshop on “**PCB Design & Testing**” is arranged on 16 to 19 December 2021 by Mr. Tulsidas Salunke, Electrosal Hi Tech Pvt. Ltd. Nipani in ECE Dept. IIIT campus. The interested students are informed to register their name towards Prof. Sachin S Patil and Prof. S. S. Malaj.

Course Fee: Rs 350/- per participants.


Co coordinator


Coordinator ECSA & IIIC


HOD
HOD
Electronics & Communication Engg.
Hirasugar Institute of Technology,
Nidasoshi-591 236

	S J P N Trust's Hirasugar Institute of Technology, Nidasoshi <i>Inculcating Values, Promoting Prosperity</i> Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi. Accredited at 'A' Grade by NAAC Programmes Accredited by NBA: CSE, ECE, EEE & ME.	ECE Dept. ISTE, IIIC, ECSA Workshop 2021-22 (Odd)
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Objectives of workshop:

Students will be able to:

- Learn basics of PCB design with CAD Tool.
- Develop embedded circuit schematic.
- Learn basic programming with Arduino IDE tool.
- Learn interfacing of Arduino with LED, LCD, Buzzer, Relay and data converters.
- Use communication protocols.
- Design and develop of IOT applications.
- Account activation on Thing speak.

Workshop Contents:

(30 Hours)

The Three days workshop would cover the following topics:

Introduction to Basic Foundation, Data sheet Analyzing, PCB (Printed Circuit Board) Introduction to PCB, Design Rules. PCB CAD Tool, Introduction to CAD tool, Software Installation, Understanding tools available in CAD, Embedded System Design, Embedded Product design flow, Sample Electronics circuits and its design - Theory. AtMega 328P, AVR Architecture, Specification and Feature of AtMega 328P Pin diagram Understanding. Programming basics Data types Variables Functions Scope rules Operators Decision making Loops Arrays String, ARDUINO IDE Software Installation Introduction to Arduino IDE tool Basic Programming with Arduino IDE Interfacing Wire and Wireless Serial, Introduction to Internet of Things, Service model, Introduction to Thing speak, Account activation on Thing speak. Project registration with selected field parameters. Data upload to Things Speak cloud using ESP8266 with ATMEGA328.

(20hrs Hours)

Outcomes of Workshop:

- Understand basics of PCB design with CAD Tool.
- Design and Develop embedded circuit schematic.
- Develop c- programming with Arduino IDE tool.
- Gain knowledge of interfacing of Arduino with LED, LCD, Buzzer, Relay and data converters.
- Use different communication protocols.
- Design and develop of various IOT applications.
- Hands on experience on Project registration with selected field parameters
- Do mini & hobby projects.


Co coordinators


Coordinator ECSA, IIIC & ISTE


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IIIC, ECSA

Workshop

2021-22 (Odd)

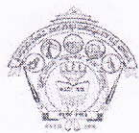
Schedule

Date	Session	Time
16/12/2021	Inauguration	10.00 -10.35 am
	Seminar on PCB Designing	10.40 -11.30 am
	Tea Break	11.30 -11.45 am
	Seminar on PCB Designing	11.45am –1.00 pm
	Lunch	1.00 – 2.00 pm
	Assignment for students related to design	2.00 – 3.30 pm
	Tea Break	3.30 -3.45 pm
	Assignment for students related to design	3.45 – 5.00 pm
17/12/2021	Printing	9.30 – 11.30 am
	Tea Break	11.30 -11.45 am
	Drilling, Etching	11.45am– 1.00 pm
	Lunch	1.00 – 2.00 pm
	Component Mounting and Soldering	2.00 – 3.30 pm
	Tea Break	3.30 -3.45 pm
18/12/2021	Component Mounting and Soldering	3.45 – 5.00 pm
	Testing (Design 1)	9.30 – 11.30 am
	Tea Break	11.30 -11.45 am
	Designing (Masking and Silkscreen)	11.45am– 1.00 pm
	Lunch	1.00 – 2.00 pm
	Gerber file generation	2.00 – 3.30 pm
	Tea Break	3.30 - 3.45 pm
19/12/2021	Question Answer	3.45 – 4.15 pm
	Testing (Design 2)	9.30 – 11.30 am
	Tea Break	11.30 -11.45 am
	Designing (Masking and Silkscreen)	11.45am– 1.00 pm
	Lunch	1.00 – 2.00 pm
	Gerber file generation	2.00 – 3.30 pm
	Tea Break	3.30 - 3.45 pm
	Test	3.45 – 4.15 pm
	Valedictory function	4.15 – 4.45 pm

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Workshop

2021-22 (Odd)

Registration Sheet for "PCB Design & Testing" Workshop from 16 to 19 Dec. 2021

Sl. No.	Name of Student	USN No	E-mail ID	Mobile No	Amount	Sign
1.	Sakuntali S. Balal	20EC032	sakuntalibalal@gmail.com	9591492134	350	So
2.	Neha A. Bhuyagoudar	EC018	nehabhuyagoudar@gmail.com	8951603108	350	rb
3.	Sapna Naik	20EC031	sapna.naik.03012002@gmail.com	7019411717	350	8
4.	Nillambaji Arakeri	20EC019	neelambajiarakeri@gmail.com	8904021345	350	Aksi
5.	Ashwini Patil	20EC08	patilashwini04379@gmail.com	8867446947	350	Anali
6.	Parankumar Magadum	20EC22	paran6magadum@gmail.com	7829197405	350	Magadum
7.	Omkar Jrapanna	20EC021	omkar.japanna@gmail.com	7676592773	350	Omkar
8.	Neelambika Govinda				350	
9.	poornima V. Permath				350	
10.	Arati A. Bugad	20EC007	arati.bugadkatti21@gmail.com	8867043539	350	Arati
11.	Gouri M. Math	20EC010	gourimathhopati2003@gmail.com	7483554619	350	Gouri
12.	Abhishek R. Math	20EC01	abhishekmath2002@gmail.com	9019808619	350	Abhishek
13.	Komal S. Chavan	20EC012	chavan.kydr22@gmail.com	9741945017	350	Komal
14.	Madhuj A. Khot	20EC014	madhujakhot@gmail.com	8792682039	350	MA Khot
15.	Sanika Patil	20EC030	SanikaPatil034@gmail.com	9880594561	350	Sanika
16.	Aniket R. Wajavale	20EC006	aniketwajavale2@gmail.com	782336600	350	Aniket
17.	Dushyant S. Patil	20EC009	dushyant7474patil@gmail.com	8494939319	350	Dushyant
18.	Mahantesh S. Pol	20EC015	mahanteshpol@gmail.com	7022344584	350	Mahantesh
19.	Samrudhi S. Kulkarni	20EC029	SamrudhiKulkarni2003@gmail.com	9740984467	350	Samrudhi
20.	Sneha Belagali	20EC037	Snehabelagali@gmail.com	7892380575	350	Sneha
21.	Tejashri Patil	20EC042	tejashripatil@gmail.com	7976123008	350	Tejashri
22.	Shrutika Dhang	20EC035	shrutikadhang2002@gmail.com	8277303720	350	Shrutika
23.	Shweta Mangole	20EC036	shwetaanimangole@gmail.com	8880875484	350	Shweta
24.	Shruti J. Magadum	20EC034	magadumshruti1412@gmail.com	7338240933	350	Shruti
25.	Sneha S. Munoli	20EC039	snehamunoli2002@gmail.com	9591353167	350	Sneha
26.	Saiprasad D. Lakamale	20EC013	SaiprasadLakamale@gmail.com	8431951836	350	Saiprasad
27.	Priyanka C. Charabude	20EC025	priyankacharabude@gmail.com	7676376867	350	Priyanka
28.	Rahul S. Kapse	20EC026	rahulsk52002@gmail.com	9880936404	350	Rahul
29.	Kartik P. Pujar	20EC011	Kartikpujor50@gmail.com	7349137828	350	Kartik
30.	Sneha Sadalge	20EC038	snehasadalge1008@gmail.com	6360836261	350	Sneha
31.	Shrawan K. Bhatwade	20EC033	bhatwade.s2016@gmail.com	636123755	350	Shrawan
32.	Sushmita Tanodi	20EC020	sushmitatanodi02@gmail.com	7204944241	350	Sushmita
33.	Swati S. Kupati	20EC041	swatikupati@gmail.com	7483898619	350	Swati
34.	Veena Magadum	20EC043	veenamagadum@gmail.com	7975788522	350	Veena
35.	Vishal R. Haragapure	20EC045	vishalsho27@gmail.com	9606873059	350	Vishal
36.	Adarsh Kamman	20EC003			350	Adarsh
37.	Abhishek C. Salotgi	20EC002	salotgiabhishek@gmail.com	7204232169	350	Abhishek
38.	Vimansa N. Pujari	20EC044	vimanshanpujari@gmail.com	8217664206	350	Vimansa
39.	Sagar Torgall	20EC028	SagarTorgall2001@gmail.com	8105301824	350	Sagar
40.	AKASH BUSARI	20EC005	akashbusari356@gmail.com	9591168841	350	Akash



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Workshop

2021-22 (Odd)

41.	Om Pr. B. Sankannavar	EC020	omprb.sankannavar@hst.ac.in	6363233005	350	
42.	Rohan. K. Chilam	EC027	rohan.k.chilam@hst.ac.in	9220156847	350	
43.	Poojwal. Magadam	EC024		6362582158	350	
44.	Yusuf. Hukkeri	EC016		7019782191	350	
45.						

Co coordinator

Coordinator ECSA & IIIC

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III C, ECSA

Workshop

2021-22 (Odd)

“Workshop on PCB Design & Testing”

Attendance Sheet

Sl.N o	USN	Name of the Student	16/12/21 Morning	16/12/21 Evening	17/12/21 Morning	17/12/21 Evening	18/12/21 Morning	18/12/21 Evening	19/12/21 Morning	19/12/21 Evening
1	2HN20EC001	Abhishek R Masti	Atati	Atati	Atati	Atati	Atati	Atati	Atati	Atati
2	2HN20EC002	Abhishek R Salotagi	Ape	Ape	Ape	Ape	Ape	Ape	Ape	Ape
3	2HN20EC003	Adarsh Sajjan Kammar	Alap	Alap	Alap	Alap	Alap	Alap	Alap	Alap
4	2HN20EC004	Dudaganvi Aishwarya Uday	Ashwarya	Ashwarya	Ashwarya	Ashwarya	Ashwarya	Ashwarya	Ashwarya	Ashwarya
5	2HN20EC005	Akash Ramesh Busari	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash
6	2HN20EC006	Aniket Ajit Wagawade	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket
7	2HN20EC007	Arati Ashok Bugadikatti	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati
8	2HN20EC008	Ashwini Babu Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
9	2HN20EC009	Dushyant S Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
10	2HN20EC010	Gouri M Mathapati	Gouri	Gouri	Gouri	Gouri	Gouri	Gouri	Gouri	Gouri
11	2HN20EC011	Kartik P Pujar	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik
12	2HN20EC012	Komal S Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
13	2HN20EC013	Lakamale Saiprasad Dilip	Saiprasad	Saiprasad	Saiprasad	Saiprasad	Saiprasad	Saiprasad	Saiprasad	Saiprasad
14	2HN20EC014	Madhuja Anil Khot	Madhuja	Madhuja	Madhuja	Madhuja	Madhuja	Madhuja	Madhuja	Madhuja
15	2HN20EC015	Mahantesh Shankar Pol	Pol	Pol	Pol	Pol	Pol	Pol	Pol	Pol
16	2HN20EC016	Mohammad Yousf B Hukkeri	AB	AB	AB	AB	AB	AB	AB	AB
17	2HN20EC017	Neelambika B.Govindapurmath	Neelambika	Neelambika	Neelambika	Neelambika	Neelambika	Neelambika	Neelambika	Neelambika
18	2HN20EC018	Neha Appasab Bhujagoudar	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
19	2HN20EC019	Nilambari Ningappa Arakeri	Nilambari	Nilambari	Nilambari	Nilambari	Nilambari	Nilambari	Nilambari	Nilambari
20	2HN20EC020	Omkar Basavanni Sankannavar	AB	AB	AB	AB	AB	AB	AB	AB
21	2HN20EC021	Omkar R Irappanavar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
22	2HN20EC022	Pavankumar S Magadum	Pavankumar	Pavankumar	Pavankumar	Pavankumar	Pavankumar	Pavankumar	Pavankumar	Pavankumar
23	2HN20EC023	Poornima Vijay Shinde	Poornima	Poornima	Poornima	Poornima	Poornima	Poornima	Poornima	Poornima
24	2HN20EC024	Prajwal Mallappa Magadum	AB	AB	AB	AB	AB	AB	AB	AB
25	2HN20EC025	Priyanka C Gharabude	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
26	2HN20EC026	Rahul S Kapse	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
27	2HN20EC027	Rohan K Chilami	AB	AB	AB	AB	AB	AB	AB	AB
28	2HN20EC028	Sagar M Torgall	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar
29	2HN20EC029	Sammrudhi S Kulkarni	Sammrudhi	Sammrudhi	Sammrudhi	Sammrudhi	Sammrudhi	Sammrudhi	Sammrudhi	Sammrudhi
30	2HN20EC030	Sanika Bahubali Patil	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika
31	2HN20EC031	Sapna Shivappa Naik	Sapna	Sapna	Sapna	Sapna	Sapna	Sapna	Sapna	Sapna
32	2HN20EC032	Saraswati S. Balobal	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati	Saraswati



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33	2HN20EC033	Shravana Bastawadi									
34	2HN20EC034	Shruti Joteppa Magadum									
35	2HN20EC035	Shrutika Dhang									
36	2HN20EC036	Shweta Anil Mangsole									
37	2HN20EC037	Sneha Belagali									
38	2HN20EC038	Sneha S. Sadalagi									
39	2HN20EC039	Sneha S. Munnoli									
40	2HN20EC040	Sushmita Sanjay Tanodi									
41	2HN20EC041	Swati Shankar Kupati									
42	2HN20EC042	Tejashri Sanjay Patil									
43	2HN20EC043	Veena Ajit Magadum									
44	2HN20EC044	Vimarsha Pujari									
45	2HN20EC045	Vishal R. Haragapure									

Co coordinator

Coordinator ECSA & IIIC

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Department of Electronics and Communication Engineering
In Association with ECSA & IIIC

Four Day's Workshop On

"PCB Design & Testing"

Certificate

This is to certify that Mr./Miss Omkan. Basavanna. Sankannavar
of III sem of ECE has actively
participated 'Four days' workshop on "PCB Design & Testing" Conducted by Electrosal
HiTech Pvt. Ltd. Nippani on 16th to 19th December 2021 at Hirasugar Institute of
Technology, Nidasoshi.



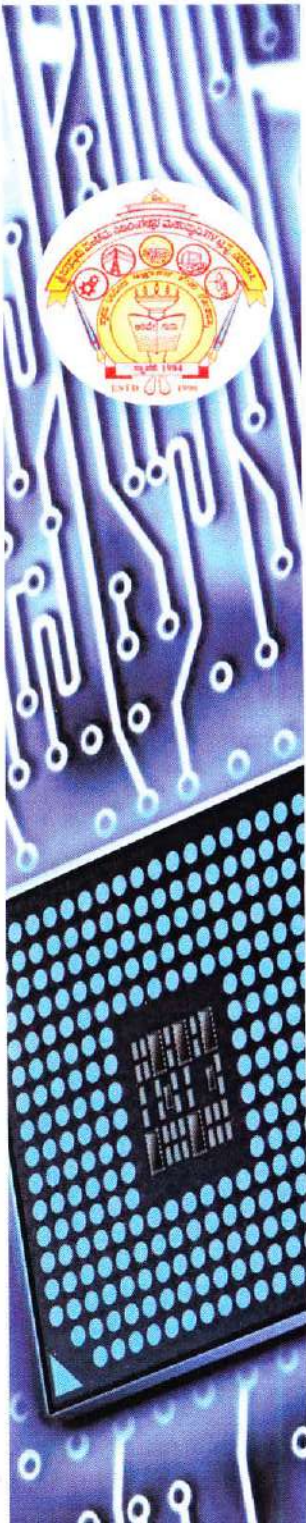
Mr. T D Salunkhe
CEO Electrosal HiTech Pvt. Ltd. Nippani



Prof. S B Akkole
HOD



Dr. S C Kamate
Principal



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			IIIC, ECSA
			Workshop
			2021-22 (Odd)

Activity Feedback Form

Title of Event: Workshop on PCB Design and Testing

Date of Event: 16-12-2021 to 19-12-21

Name of Resource Person: Mr. Tulasidas Salunkhe, CEO Director,
Electrosal Hi Tech Pvt.Ltd. Nipani.

Number of Students: 36

Instructions: Please tick your level of agreement with the statements listed below	Excellent	Very good	Good	Satisfactory	Poor
1 Helpful in understanding PCB Design basics.	✓				
2. Hands-on exposure to Printing, etching, drilling and soldering process.	✓				
3. Hands-on exposure to the process of testing in PCB design.	✓				
4 Overall effectiveness of the resource person during the workshop.	✓				
5. A platform to discuss the strategies of PCB Design.	✓				
6. Helpful in carrying out project, testing of any of the required design.	✓				
7. Overall rating of this workshop.	✓				

Any suggestions.

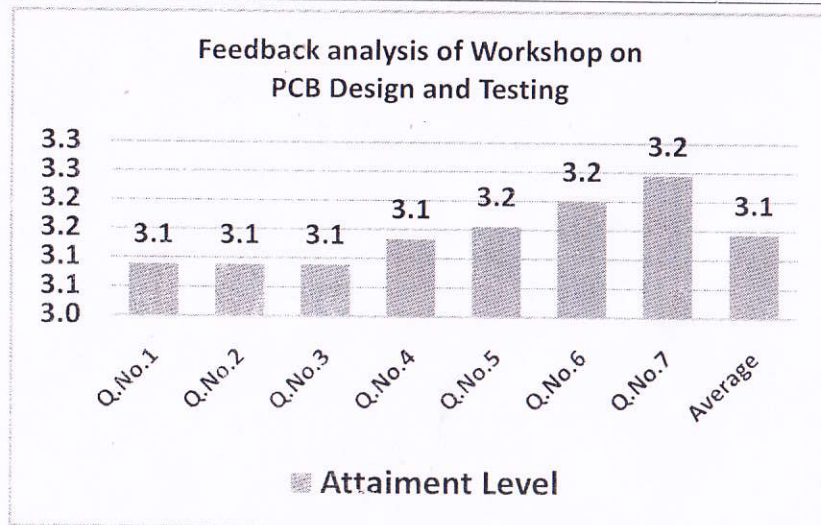


Student Signature

Title of Event: Workshop on PCB Design and Testing

Number of Students: 45

Q. No.	Excellent (4)		Very good(3)		Good (2)		Satisfactory (1)		Poor (0)		Total score	% of attainment = (Total score/Total Students Attended)	Average Percentage attainment	Attainment Level	Mapped Pos	Mapped PSOs
Q.No.1	25	100	11	33	3	6	0	0	0	0	139	3.1				
Q.No.2	24	96	13	39	2	4	0	0	0	0	139	3.1				
Q.No.3	25	100	12	36	1	2	1	1	0	0	139	3.1				
Q.No.4	27	108	9	27	3	6	0	0	0	0	141	3.1				
Q.No.5	28	112	8	24	3	6	0	0	0	0	142	3.2				
Q.No.6	28	112	10	30	1	2	0	0	0	0	144	3.2				
Q.No.7	30	120	8	24	1	2	0	0	0	0	146	3.2				
Average												3.1	78.6			



Impact Analysis: From the above Table, four days workshop on PCB Design and Testing event highly attained to level 3 against mapped PO1, PO2, PO5, PO9, PO10, PO12 and PSO2.

NOTE: Substantial or high = 3, Medium = 2 and Low = 1

IIC Coordinator
 (Prof. D.M
 Kumbhar)

NBA Coordinator

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