

	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.		2019-20 (Odd)

Date: 11/09/2019

Notice

It is hereby informed that workshop on “**PCB Design & Testing**” is arranged on 19 to 22 September 2019 by Mr. Tulsidas Salunke, Electrosal Hi Tech Pvt. Ltd. in HIT campus. The interested students are informed to register their name towards Prof. Sachin S Patil.

Course Fee: Rs 300/- per participants.


Co coordinator


Coordinator ECSA & IIIC


HOD

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Objectives of workshop:

Students will be able to:

- Learn software tool for PCB design.
- Develop circuit schematic and PCB layout.
- Learn fabrication processes of PCB like printing, etching, drilling, component mounting and soldering.
- Generate Gerber file
- Do hobby projects.

Workshop Contents:

(30 Hours)

The four days workshop would cover the following topics:

Introduction to Eagle PCB tool, A simple example: Schematic entry to PCB layout, Schematic Entry in detail: Creating custom components, importing standard libraries, Tools for creating components, Generating Net list from schematic: Annotation schemes, Matching schematic symbols to footprints, Board layout: Importing Net list, Footprint layout & form factor, Layers of design, Single layer, multilayer designs, Manual routing, Custom Tracks & vias, track width calculation, auto routing, outline routing tools, generating custom routes. (6 Hours)

Assignments for students to generate PCB layout for simple circuit. (4 Hours)

PCB Fabrication: Quick Presentation on PCB fabrication, printing on photo paper, etching, drilling, component mounting, soldering and testing (Hands on session). (6 Hours)

Masking, Silkscreen, Gerber file generation: Finalizing the design, Gerber file format for different layers. appending multiple boards. (6 Hours)

Designing simple PCB (Hands on session). (8 Hours)

Outcomes of Workshop:

Students will be able to:

- Understand how to use software tool for PCB design by designing schematic & PCB layout for different circuits.
- Hands on experience on fabrication processes of PCB (printing, etching & drilling), component mounting, soldering and testing.
- Gain knowledge on how generate Gerber file.
- Do mini & hobby projects using knowledge gained in workshop.


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Workshop

2019-20 (Odd)

Schedule

Date	Session	Time
19/09/2019	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
20/09/2019	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
	Component Mounting and Soldering	3.45 - 5.00 pm
21/09/2019	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
	Question Answer	3.45 - 4.15 pm
22/09/2019	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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 IIIC, ECSA
 Workshop
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Registration Sheet for "PCB Design & Testing" Workshop from 19 to 22 Sept. 2019

Sl. No.	Name of Student	USN No	E-mail ID	Mobile No	Amount	Sign
1.	Abhishek, A. K.	2HN18EC001	abhishekheragel2@gmail.com	9916049974	300	AAB
2.	Aishwarya, A. Y.	2HN18EC002		9945147349	300	A.Y.
3.	Akshay Chay	EC003	akshay008@gmail.com	9686249942	300	Aksh
4.	Akshata M. Patil	EC005	a		300	Aksh
5.	Amruta Bommannavar	EC006	amrutabommannavar@gmail.com	9908080887	300	Amr
6.	Ashrafi M. Attar	2HN18EC007	ashrafattar2000@gmail.com		300	Ashrafi
7.	Bhagya Patil	EC008	bhagya.patilod18@gmail.com	6361255014	300	Bp
8.	Deepu Vamanatti	EC009	deepuvamanatti@gmail.com	8073422877	300	Deepu
9.	Jayashree More	EC010	jayamore223130@gmail.com	8197332032	300	Jayashree
10.	Kiran Khadakbhavi	EC011	kirankhadakbhavi@gmail.com	8197336361	300	Kiran
11.	Laxmi M. Badiger	EC012	laxmibadiger29@gmail.com	7829747280	300	Laxmi
12.	Mahaling R Nilajayi	EC013		9792188980	300	Mahaling
13.	Manjunath N. K	EC014		636281390	300	Manjunath
14.	Netraya Patil	EC016	netrajap195@gmail.com	9591898814	300	Netraya
15.	Pavan Kumar, K. Kambar	EC017	plkPavanKumar146@gmail.com	8123703827	300	Pavan
16.	Pooja S. Phatange	EC018	PoojaPhatange843@gmail.com	9036226047	300	Pooja
17.	Prathamesh Khadake	EC019	pratham14785@gmail.com	9008947684	300	Pratham
18.	Priya Kadakol	2HN18EC020	PriyaKadakol3420@gmail.com	760087784	300	Priya
19.	Ramakumar Kamagouda	2HN18EC022	Ramakumar.Kamagouda	7899121749	500	Ramakumar
20.	Ranjeeta Patil	EC023			300	Ranjeeta
21.	Ravikiran Kadam	EC024	ravikiran.kadam@gmail.com	9686422546	300	Ravikiran
22.	Rohini V. Shidamreddi	2HN18EC025	rohinishidamreddi@gmail.com	9108756105	300	Rohini
23.	Roopa S. Desai	2HN18EC026	roopadesai1221@gmail.com	6362022497	300	Roopa
24.	Roopa Gadivaddar	EC027	tammanna.974@gmail.com	9741505855	300	Roopa
25.	Ruksar B. Shaikh	2HN18EC028	Ruksar Shaikh2018@gmail.com	7618750168	300	Ruksar
26.	Rutika A. Kanade	2HN18EC029	rutika.kanade4927@gmail.com	9880171834	300	Rutika
27.	Sanket B. Jagtap	2HN18EC030	sjagtap94@gmail.com	6361851118	300	Sanket
28.	Shreelakshmi Belavi	EC031	shreelakshmi171@gmail.com	8792449908	300	Shreelakshmi
29.	Teju M. Ninganawar	EC032	tejuninganawar7352@gmail.com	7406397758	200	Teju
30.	Vijayalaxi Avarade	EC034		9632631237	200	Vijayalaxi
31.	Yashodha K. Manasbetti	EC035	yashodhakm2000@gmail.com	7349310318	300	Yashodha
32.	Sudha Naganur		naganur.sudha@gmail.com	8834945694	300	Sudha
33.	Tanuja T. K		tanuja.khasshinge9@gmail.com	7090101643	300	Tanuja
34.	Snehal S. K		Snehal.kggi8@gmail.com	7019420868	300	Snehal
35.	Chinna M. Yashawant	EE005		7676866976	300	Chinna
36.	Sourya Mangaraj	EE022		9380424572	300	Sourya
37.						
38.						
39.						
40.						

Co-ordinator

Coordinator ECSA & IIIC

HOD

Nidasoshi-591 236, Taq. Hukkeri, Dist. Belagavi, Karnataka, India.

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Workshop

2019-20 (Odd)

“Workshop on PCB Design & Testing”

Attendance Sheet

Sl.No	USN	Name of the Student	19/09/19 Morning	19/09/19 Evening	20/09/19 Morning	20/09/19 Evening	21/09/19 Morning	21/09/19 Evening	22/09/19 Morning	22/09/19 Evening
1	2HN18EC001	Abhishek Herage	✓	✓	✓	✓	✓	✓	✓	✓
2	2HN18EC002	Aishwarya A.Yashwant	✓	✓	✓	✓	✓	✓	✓	✓
3	2HN18EC003	Akash Dhang	✓	✓	✓	✓	✓	✓	✓	✓
4	2HN18EC005	Akshata M.Patil	✓	✓	✓	✓	✓	✓	✓	✓
5	2HN18EC006	Amruta Bommanavar	✓	✓	✓	✓	✓	✓	✓	✓
6	2HN18EC007	Ashrafi M.Attar	✓	✓	✓	✓	✓	✓	✓	✓
7	2HN18EC008	Bhagyashri Patil	✓	✓	✓	✓	✓	✓	✓	✓
8	2HN18EC009	Deepu K.Uramanatti	✓	✓	✓	✓	✓	✓	✓	✓
9	2HN18EC010	Jayashree More	✓	✓	✓	✓	✓	✓	✓	✓
10	2HN18EC011	Kiran Khadakbinavi	✓	✓	✓	✓	✓	✓	✓	✓
11	2HN18EC012	Laxmi Badiger	✓	✓	✓	✓	✓	✓	✓	✓
12	2HN18EC013	Mahaning Nilajagi	✓	✓	✓	✓	✓	✓	✓	✓
13	2HN18EC014	Manjunath Kiudanavar	✓	✓	✓	✓	✓	✓	✓	✓
14	2HN18EC016	Netraja Patil	✓	✓	✓	✓	✓	✓	✓	✓
15	2HN18EC017	Pavankumar Kambar	✓	✓	✓	✓	✓	✓	✓	✓
16	2HN18EC018	Pooja S Phatinge	✓	✓	✓	✓	✓	✓	✓	✓
17	2HN18EC019	Prathamesh Knadake	✓	✓	✓	✓	✓	✓	✓	✓
18	2HN18EC020	Priva Kadakol	✓	✓	✓	✓	✓	✓	✓	✓
19	2HN18EC022	Ramakumar Kamagoud	✓	✓	✓	✓	✓	✓	✓	✓
20	2HN18EC023	Ranjeeta Patil	✓	✓	✓	✓	✓	✓	✓	✓
21	2HN18EC024	Ravikiran Tanaji Kadam	✓	✓	✓	✓	✓	✓	✓	✓
22	2HN18EC025	Rohini Shidaraddi	✓	✓	✓	✓	✓	✓	✓	✓
23	2HN18EC026	Roopa Desai	✓	✓	✓	✓	✓	✓	✓	✓
24	2HN18EC027	Roopa Gadiwaddar	✓	✓	✓	✓	✓	✓	✓	✓
25	2HN18EC028	Ruksar B.Shaikh	✓	✓	✓	✓	✓	✓	✓	✓
26	2HN18EC029	Rutika A. Kanade	✓	✓	✓	✓	✓	✓	✓	✓
27	2HN18EC030	Sanket Jaganuri	✓	✓	✓	✓	✓	✓	✓	✓
28	2HN18EC031	Shreelaxmi Belavi	✓	✓	✓	✓	✓	✓	✓	✓
29	2HN18EC032	Teju Ninganure	✓	✓	✓	✓	✓	✓	✓	✓
30	2HN18EC034	Vijaylaxmi S.Avarade	✓	✓	✓	✓	✓	✓	✓	✓
31	2HN18EC035	Yashodha K Manashetti	✓	✓	✓	✓	✓	✓	✓	✓
32	DIPLOMA	Sudha Nagarwal	✓	✓	✓	✓	✓	✓	✓	✓
33	DIPLOMA	Tanuja T. Kharshinge	✓	✓	✓	✓	✓	✓	✓	✓
34	DIPLOMA	Anchal S. Kagi	✓	✓	✓	✓	✓	✓	✓	✓
35	2HN18EC005	chinna M.Yashawad	✓	✓	✓	✓	✓	✓	✓	✓
36	2HN18EC022	Soumya Mangavali	✓	✓	✓	✓	✓	✓	✓	✓
37										
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S.J.P.N. Trust's

HIRASUGAR INSTITUTE OF TECHNOLOGY

NIDASOSHI-591236

(Approved by A.I.C.T.E., New Delhi and Affiliated to VTU, Belagavi, Karnataka)
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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 Manjunath Kiudannavar
of III Sem ECE has actively
participated three days' workshop on “PCB Design & Testing” Conducted by Electrosal
HiTech Pvt. Ltd. Nippani on 19th to 22nd September 2019 at Hirasugar Institute of
Technology, Nidasoshi.

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

Dr. V G Kasabegoudar
HOD

Dr. S C Kamate
Principal

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		IIIC, ECSA
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Activity Feedback Form

Title of Event: Workshop on PCB Design and Testing

Date of Event: 19-09-2019 to 22-09-2019

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.	✓				

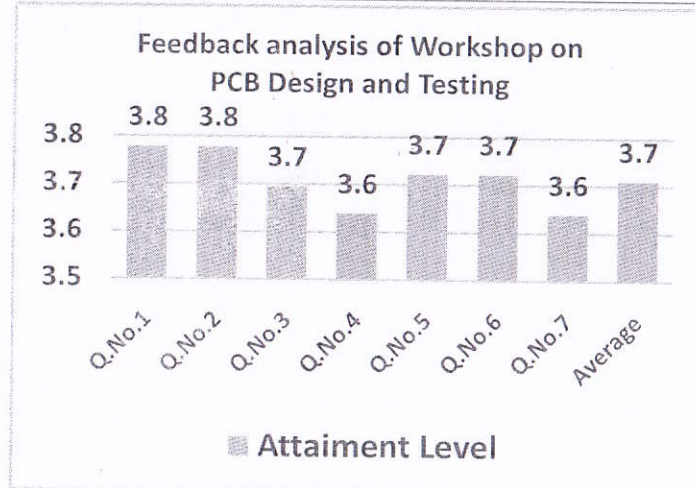
Any suggestions.


 Student Signature

Title of Event: Workshop on PCB Design and Testing

Number of Students: 36

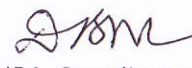
Q. No.	Excellent (4)		Very good(3)		Good (2)		Satisfactory (1)		Poor(0)		Total score	% of attainment = (Total score/Total Students Attended)	Average Percentage attainment	Attainment Level	Mapped Pos	Mapped PSOs
Q.No.1	28	112	8	24	0	0	0	0	0	0	136	3.8				
Q.No.2	29	116	6	18	1	2	0	0	0	0	136	3.8				
Q.No.3	26	104	9	27	1	2	0	0	0	0	133	3.7				
Q.No.4	25	100	9	27	2	4	0	0	0	0	131	3.6				
Q.No.5	26	104	10	30	0	0	0	0	0	0	134	3.7				
Q.No.6	27	108	8	24	1	2	0	0	0	0	134	3.7				
Q.No.7	24	96	11	33	1	2	0	0	0	0	131	3.6				
Average												3.7	92.8	High = 3	1,2,5,9,10,12	2



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


 IIIC Coordinator
 (Prof. D.M. Kumbhar)


 NBA Coordinator


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Electronics & Commn. Engg. Dept.
HSIT NIDASOSHI