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		IIIC, ECSA
		Workshop
		2022-23 (Odd)

Date of Activity held and Time:	15/12/2022 to 18/12/2022	9.00am to 5.00pm	
Name of Activity:	Workshop on “PCB Designing and Testing”		
Type of Activity: (cultural/curricular/co-curricular)	Co-curricular		
Resource Person/Invitee:	Mr. Tulasidas Salunkhe & Prof. D M Kumbhar, Prof. Sachin S Patil		
Professional Details of Resource Person:	CEO, Electrosal Hi Tech Pvt. Ltd. Nipani ECE Department HIT, Nidasoshi.		
Year / Class:	3 rd Sem Sem Students of ECE Dept.		
No. of students:	60		
No. of Staff:	--		
Activity In charge:	Prof. D M Kumbhar, Prof. Sachin S Patil		
Description of Activity: A workshop on “PCB Designing and Testing” was arranged by ECE Department for 3 rd Semester ECE students from 15/12/2022 to 18/12/2022 which was delivered by Mr. Tulasidas Salunkhe, Electrosal Hi Tech Pvt. Ltd. Nipani & Prof. D M Kumbhar, Prof. Sachin S Patil ECE Department HIT, Nidasoshi. In this workshop they gave tricks on PCB designing by using eagle software. The workshop focused on the basics of PCB designing tools. Students used Eagle PCB tool and completed various activities based on PCB designing. The same tool can be used for designing the schematic layout of the circuit which can be then converted into an equivalent PCB design. At the end, students successfully completed their PCB designs. After the session on design, the participants were taught PCB fabrication process and the steps involved in PCB designing printing, etching, drilling, and component mounting, soldering and testing of circuits. Further these designed circuits were printed on the copper clads for the fabrication process. Next session students did component mounting, soldering and testing. In one of the sessions, he highlighted on how to generate a Gerber file. Last session was an interactive one and gave their feedback.			
Objectives	RBT level	PO	PSO
To learn software tool for PCB design, and to fabricate PCB layout, component mounting, soldering and testing.	L5	1,2,5,9,10,12	2

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4 Days Workshop on "PCB Design and Testing"

Duration: 30 Hours

Objectives:

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:

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)

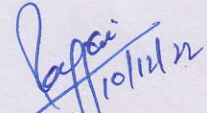
Designing simple PCB (Hands on session). (8 Hours)

Outcomes of Workshop:

- Understand how to use software tool for PCB design.
- Develop circuit schematic and PCB layout.
- Hands on experience on fabrication processes of PCB like printing, etching, drilling, component mounting and soldering.
- Gain knowledge on how generate Gerber file.
- Do mini & hobby projects.


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Coordinator ECSA & IIIC


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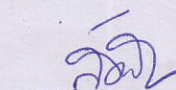
4 Days Workshop on “PCB Design and Testing”

Duration: 30 Hours

Schedule

Date	Session	Time
15/12/2022	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
16/12/2022	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
17/12/2022	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
18/12/2022	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

Venue: Project Lab, Department of E&E Engg. HSIT Nidasoshi


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Workshop

2022-23 (Odd)

Registration Sheet for "PCB Design & Testing" Workshop from 15 to 18 Dec. 2022

Sl. No.	Name of Student	USN No	E-mail ID	Mobile No	Amount	Sign
1.	Abhishek A. Mathad	2HN21EC001	abhishekmathad50@gmail.com	8123277133	200	AMathad
2.	Aditya A. Sajane	2HN21EC002	adityasajane456@gmail.com	7026732020	200	AD
3.	Akshata B. Nandi Kolamath	2HN21EC003	akshatabk2003@gmail.com	8310728066	200	Aksh
4.	Akshay P. Patil	2HN21EC004	patilakshay999@gmail.com	9019460391	200	AP
5.	Anjana A. Kulkarni	2HN21EC005	anjanaatulkarni4@gmail.com	7892915956	200	AAK
6.	Ankit A. Awaragale	2HN21EC006	ankitawaragale@gmail.com	7483015465	200	AA
7.	Anup S. Khos	007			200	
8.	Apoorva B. Ambiger	2HN21EC008	apoorvambiger109@gmail.com	7676480906	200	AB
9.	Atharv A. Joshi	2HN21EC009	joshiatharv10@gmail.com	9108305326	200	AAJ
10.	Aattawla Nalawadi	10	aattawlanalawadi@gmail.com	7411394883	200	AN
11.	Balu A. Chougale	2HN21EC011	Baluchougale364@gmail.com	6366696891	200	BA
12.	Yashas R. Bhandargal	2HN21EC012	Bhandargal2002@gmail.com	7507728925	200	YB
13.	Chaitali B. Umare	2HN21EC013	Chaitali.umare@gmail.com	8088890946	200	CB
14.	Chaitrashvi Badiger	14			200	
15.	Chandrika R. Pokale	2HN21EC015	chandrika.pokale@gmail.com	8769108805	200	CR
16.	Chetan B. Yarasabadi	2HN21EC016	chetanreddy4739@gmail.com	9019551588	200	CB
17.	Danesh M. Sasale	2HN21EC017	daneshsasale417@gmail.com	8088554326	200	DS
18.	Gayatri M. Sali	2HN21EC018	mauneshsali@gmail.com	7760254394	200	GS
19.	Jairesh Shah	2HN21EC019	jaireshah2002@gmail.com	8123950124	200	JS
20.	Jaylaxmi K. Jakkoppagol	2HN21EC020	jaylaxmijakkoppagol@gmail.com	9019689189	200	JK
21.	Kalavati V. Kore	2HN21EC021	kalavatikore2@gmail.com	7760578304	200	KK
22.	Krishna N. Jinni	2HN21EC022	krishnajiinni742@gmail.com	7483743937	200	KN
23.	Lakshmi A. Hunchinal	2HN21EC023	lakshmi.hunchinal@gmail.com	8147195347	200	LA
24.	Madhu S. Patil	2HN21EC024		9741568909	200	MS
25.	Monisha Croddali	25			200	
26.	Nandita G. Shingde	2HN21EC026	nanditashindhe6@gmail.com	9845950829	200	NS
27.	Nihal Kumbhar	027			200	
28.	Nikhil R. Mali	028			200	
29.	Ankur Kore	029			200	
30.	Preeti R. Soude	2HN21EC030	preetisoud70099@gmail.com	9148125011	200	PS
31.	Punit S. Kalmath	2HN21EC031	Punitkalmath@gmail.com	7795512484	200	PK
32.	Rakshita M. Biranje	2HN21EC032	Rakshita.biranjel6@gmail.com	8431557503	200	RB
33.	Rutu S. Patil	2HN21EC033	rutupatil52003@gmail.com	9353995195	200	RS
34.	Sadiya M. Nesaragi	2HN21EC034	Sadiya.Nesaragi78@gmail.com	6366193942	200	SN
35.	Sejalina Patil	35			200	
36.	Sarita S. Hanchinal	2HN21EC036	sarita.hanchinal95@gmail.com	8150059714	200	SH
37.	Akash S. Shinde	037			200	
38.	Shreya D. Yamanamare	2HN21EC038	yamanamadeshreya@gmail.com	8310737009	200	SY
39.	Shrinidhi R. Hedurshetti	2HN21EC039	hedurshettishrinidhi@gmail.com	8088181425	200	SR
40.	Shubham Chatawade	40			200	

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

Phone: +91-8333-278887, Fax: 278886, Web: www.hsit.ac.in, E-mail: principal@hsit.ac.in



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Workshop

2022-23 (Odd)

41.	Srordhy Godaker	41			200	
42.	Sneha M. Hatroti	2HN21EC04	Snehahatroti@gmail.com	7619209170	200	Sh
43.	Sneha S. Somannavar	2HN21EC04	Sneha.Somannavar2003@gmail.com	6362642573	200	Sneha
44.	Sourmya B. Koullogi	2HN21EC04	Koullogisourmya@gmail.com	6362531319	200	Supriya
45.	Sourabh V. Patil	2HN21EC04	Sourabhpatil2003@gmail.com	9110837550	200	Sourabh
46.	Sushiti N. Havalbodi	2HN21EC04	Sushitihavalbodi@gmail.com	8296715108	200	S.N.H
47.	Supriya Kuri	47			200	
48.	Vikas P. Dhawane	48			200	
49.	Vinod H. Adawar	49	Vinodadawar659@gmail.com	2267087792	200	Vinod
50.	Arbab Nadeef				200	
51.	Arghy Patra				200	
52.						
53.						
54.						
55.	Kailappa M. Kalayam				200	
56.	Hagooj Malt				200	
57.						
58.	Saddam Mijawar				200	
59.	Shivraj Kalasagonda				200	
60.	Shubham Karagali				200	
61.	Supreet Jagannoi				200	
62.	Vishayak Ghatargi				200	
63.						

Co coordinator

Coordinator ECSA & IIIC

HOD

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Hirasugar Institute of Technology,
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“Workshop on PCB Design & Testing” Attendance Sheet

Sl. No	USN	Name of the Student	22/12/22 Morning	22/12/22 Evening	23/12/22 Morning	23/12/22 Evening	24/12/22 Morning	24/12/22 Evening	25/12/22 Morning	25/12/22 Evening
1	2HN21EC001	Abhishek A Mathad	AB Mathad	AB Mathad	AB Mathad	AB Mathad	AB Mathad	AB Mathad	AB Mathad	AB Mathad
2	2HN21EC002	Aditya Sajane	AS	AS	AS	AS	AS	AS	AS	AS
3	2HN21EC003	Akshata B Nadnikolamath	AN	AN	AN	AN	AN	AN	AN	AN
4	2HN21EC004	Akshay S Pattar			AP	AP	AP			
5	2HN21EC005	Anjana A Kulkarni	AK	AK	AK	AK	AK	AK	AK	AK
6	2HN21EC006	AnkitBhimappaAvaragol	AA	AA	AA	AA	AA	AA	AA	AA
7	2HN21EC007	AnupSatappaKhot			AK	AK	AK			
8	2HN21EC008	ApoorvaBasavarajAmbiger	AB	AB	AB	AB	AB	AB	AB	AB
9	2HN21EC009	AtharvAnant Joshi	AJ	AJ	AJ	AJ	AJ	AJ	AJ	AJ
10	2HN21EC010	AttaullaNaikwadi	AN	AN	AN	AN	AN	AN	AN	AN
11	2HN21EC011	Balu A Chougala	BC	BC	BC	BC	BC	BC	BC	BC
12	2HN21EC012	BandargalYashas Rajesh	BR	BR	BR	BR	BR	BR	BR	BR
13	2HN21EC013	Chaitali B Umarane	CU	CU	CU	CU	CU	CU	CU	CU
14	2HN21EC014	Chaitrashri M Badiger	CB	CB	CB	CB	CB	CB	CB	CB
15	2HN21EC015	Chandrika R Pokali	CP	CP	CP	CP	CP	CP	CP	CP
16	2HN21EC016	Chetan B Yarabandi	CY	CY	CY	CY	CY	CY	CY	CY
17	2HN21EC017	Danesh M Sasalatti	DS	DS	DS	DS	DS	DS	DS	DS
18	2HN21EC018	GayatriMouneshSali	GS	GS	GS	GS	GS	GS	GS	GS
19	2HN21EC019	Jaine R Shah	JS	JS	JS	JS	JS	JS	JS	JS
20	2HN21EC020	Jayalaxmi K Jakkappagol	JK	JK	JK	JK	JK	JK	JK	JK
21	2HN21EC021	Kalavati V Kore	KK	KK	KK	KK	KK	KK	KK	KK
22	2HN21EC022	Krishna NingappaJivani	KN	KN	KN	KN	KN	KN	KN	KN
23	2HN21EC023	LaxshmiAnandHunchyali	LA	LA	LA	LA	LA	LA	LA	LA
24	2HN21EC024	MadhuSangangoudaPatil	MP	MP	MP	MP	MP	MP	MP	MP
25	2HN21EC025	Manisha G, Goddale	MG	MG	MG	MG	MG	MG	MG	MG
26	2HN21EC026	Nandita G Shindhe	NS	NS	NS	NS	NS	NS	NS	NS
27	2HN21EC027	Nihal J Kumanali	NK	NK	NK	NK	NK	NK	NK	NK
28	2HN21EC028	Nikhil Ramesh Mali	NM	NM	NM	NM	NM	NM	NM	NM
29	2HN21EC029	Omkar M Kore	OK	OK	OK	OK	OK	OK	OK	OK
30	2HN21EC030	PreetiRamuSoude	PS	PS	PS	PS	PS	PS	PS	PS



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Sl. No	USN	Name of the Student	22/12/22 Morning	22/12/22 Evening	23/12/22 Morning	23/12/22 Evening	24/12/22 Morning	24/12/22 Evening	25/12/22 Morning	25/12/22 Evening
31	2HN21EC031	Puneet S Gududurkalmath								
32	2HN21EC032	Rakshita M Biranje	PMBiranj	PMBiranj	PMBiranj	PMBiranj	PMBiranj	PMBiranj	PMBiranj	PMBiranj
33	2HN21EC033	Rutu S. Patil	RP	RP	RP	RP	RP	RP	RP	RP
34	2HN21EC034	SadiyaMohsinNesargi	Snrg	Snrg	Snrg	Snrg	Snrg	Snrg	Snrg	Snrg
35	2HN21EC035	Sanjana B Patil	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP
36	2HN21EC036	SavitaShivamoggiHanchinal	SH	SH	SH	SH	SH	SH	SH	SH
37	2HN21EC037	Akash S Shinde	AS	AS	AS	AS	AS	AS	AS	AS
38	2HN21EC038	ShreyYamakanmarade	SY	SY	SY	SY	SY	SY	SY	SY
39	2HN21EC039	Shrinidhi R Heddurshetti	SRH	SRH	SRH	SRH	SRH	SRH	SRH	SRH
40	2HN21EC040	Shubham T Ghatawade	STG	STG	STG	STG	STG	STG	STG	STG
41	2HN21EC041	Sindhu M Todakar	STM	STM	STM	STM	STM	STM	STM	STM
42	2HN21EC042	Sneha M Hatroti	SH	SH	SH	SH	SH	SH	SH	SH
43	2HN21EC043	Sneha S Somannavar	SS	SS	SS	SS	SS	SS	SS	SS
44	2HN21EC044	SoumyaBalappaKoujalagi	SBK	SBK	SBK	SBK	SBK	SBK	SBK	SBK
45	2HN21EC045	Sourabh V Patil	SP	SP	SP	SP	SP	SP	SP	SP
46	2HN21EC046	Srushti N Havaladar	SNH	SNH	SNH	SNH	SNH	SNH	SNH	SNH
47	2HN21EC047	SupritaBabuKuri	SBK	SBK	SBK	SBK	SBK	SBK	SBK	SBK
48	2HN21EC048	VikasPundalikDhavane	VPD	VPD	VPD	VPD	VPD	VPD	VPD	VPD
49	2HN21EC049	VinodHovappaAdavi	VAD	VAD	VAD	VAD	VAD	VAD	VAD	VAD
50	DIP	Aftab S Nadaf	AN	AN	AN	AN	AN	AN	AN	AN
51	DIP	Akshay S Patkar	AP	AP	AP	AP	AP	AP	AP	AP
52	DIP	Amar Mallykhan								
53	DIP	Arati S Phatinge								
54	DIP	Husen B Goundi								
55	DIP	Kallappa M K	KMK	KMK	KMK	KMK	KMK	KMK	KMK	KMK
56	DIP	Nagaraj M Mali	NM	NM	NM	NM	NM	NM	NM	NM
57	DIP	Nagaraj M Mali	NM	NM	NM	NM	NM	NM	NM	NM
58	DIP	PrajwalSutar	PS	PS	PS	PS	PS	PS	PS	PS
59	DIP	Saddam M Mujawar	SM	SM	SM	SM	SM	SM	SM	SM
60	DIP	Shivaraj B Kalasagonda								
61	DIP	Shubham P Kanagali								
62	DIP	Supreet B Jaganuri								
63	DIP	Vinayak D Galatagi	VDG	VDG	VDG	VDG	VDG	VDG	VDG	VDG
64	DIP	Veerabhadhra								

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Coordinator: ECSA & IIIC

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Department of Electronics and Communication Engineering

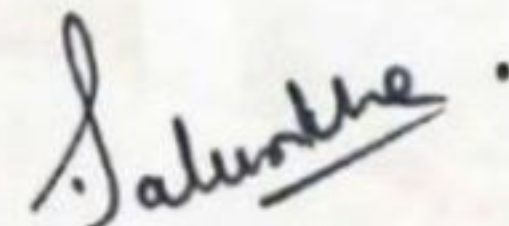
In Association with ECSA & IIC

Four Day's Workshop On

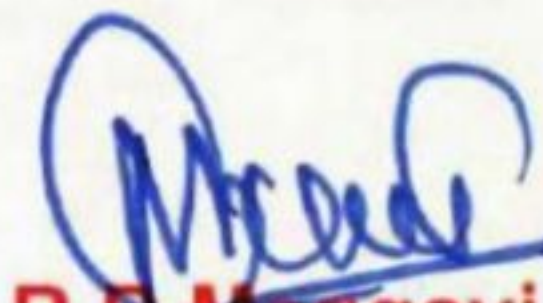
" PCB Design & Testing "

Certificate

This is to certify that Mr./Miss Aditya Sajane
of III Sem of ECE has actively
participated in Four days' workshop on "PCB Design & Testing" Conducted by **Electrosal**
HiTech Pvt. Ltd. Nippani on 22nd to 25th December 2022 at Hirasugar Institute of
Technology, Nidasoshi.



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



Dr. R R Maggavi
HOD



Dr. S C Kamate
Principal



Event Feedback :

4-Days Workshop on "PCB Design & Testing"
organized by E&C Engg. Department, Hirasugar
Institute of Technology, Nidasoshi on
22/12/2022 to 25/12/2022.

Email *

daneshsasalatti417@gmail.com

Full Name *

Danesh sasalatti

Topic of the speakers were relevant to my area of interest *

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory
- ☐ Poor

Resource persons Helped me to understand PCB Design basics *

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory
- ☐ Poor

Hands-on exposure to Printing, etching, drilling and soldering process *

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory
- ☐ Poor

Hands-on exposure to the process of testing in PCB design. *

- ☒ Excellent
- ☐ Very Good
- ☐ Good
- ☐ Satisfactory
- ☐ Poor

Overall rating of the Workshop *

- ☐ Excellent
- ☒ Very Good
- ☐ Good
- ☐ Satisfactory
- ☐ Poor

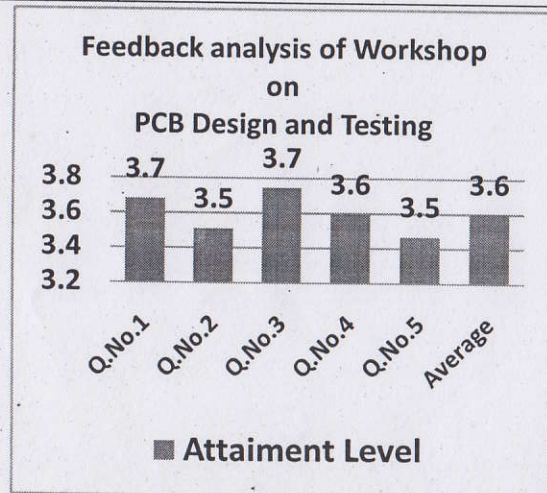
This form was created inside of Hirasugar Institute of Technology.

Google Forms

Title of Event: Workshop on PCB Design and Testing

Number of Students: 47

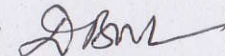
Q. No.	Excellent (4)		Very good (3)		Good (2)		Satisfactory (1)		Poor (0)		Total score	% of attainment = (Total score/Total Students Attended)	Average Percentage attainment	Attainment Level	Mapped Pos	Mapped PSOs
Q.No.1	34	136	11	33	2	4	0	0	0	0	173	3.7				
Q.No.2	27	108	17	51	3	6	0	0	0	0	165	3.5				
Q.No.3	35	140	12	36	0	0	0	0	0	0	176	3.7				
Q.No.4	29	116	17	51	1	2	0	0	0	0	169	3.6				
Q.No.5	31	124	3	9	15	30	0	0	0	0	163	3.5				
Average												3.6	90.0	High = 3	1,2,5,9,10,12	2

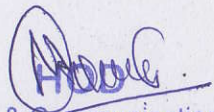


Impact Analysis: From the above Table, four days workshop on PCB Design and Testing event mediumly attained to level 2 against mapped PO1, PO2, PO5, PO9, PO10, PO12 and PSO2.

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


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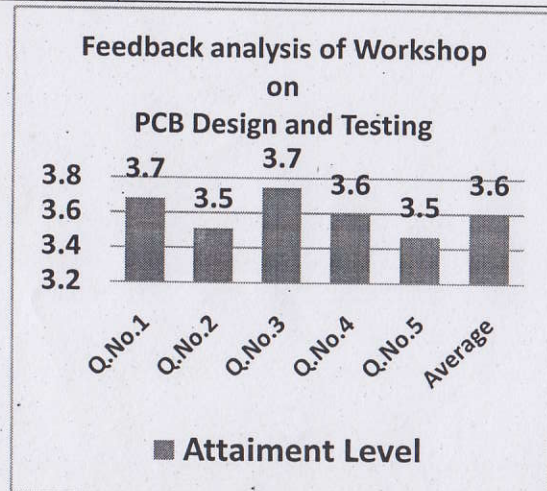

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 Electronics & Communication Engg.
 Hirasugar Institute of Technology,
 Nidasoshi-591 236

Title of Event: Workshop on PCB Design and Testing

Number of Students: 47

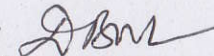
Q. No.	Excellent (4)		Very good (3)		Good (2)		Satisfactory (1)		Poor (0)		Total score	% of attainment = (Total score/Total Students Attended)	Average Percentage attainment	Attainment Level	Mapped Pos	Mapped PSOs
Q.No.1	34	136	11	33	2	4	0	0	0	0	173	3.7				
Q.No.2	27	108	17	51	3	6	0	0	0	0	165	3.5				
Q.No.3	35	140	12	36	0	0	0	0	0	0	176	3.7				
Q.No.4	29	116	17	51	1	2	0	0	0	0	169	3.6				
Q.No.5	31	124	3	9	15	30	0	0	0	0	163	3.5				
Average												3.6	90.0	High = 3	1,2,5,9,10,12	2

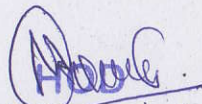


Impact Analysis: From the above Table, four days workshop on PCB Design and Testing event mediumly attained to level 2 against mapped PO1, PO2, PO5, PO9, PO10, PO12 and PSO2.

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


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