



**Dempo Charities Trust's
Dhempe College of Arts and Science
Miramar, Panaji – Goa**
Department of Physics

Report of Two-day Workshop on 'Advanced PCB Designing using Ki-Cad Software'

Objective

The primary objective of this workshop was to provide students with a comprehensive understanding of PCB (Printed Circuit Board) design using Ki-Cad software. It aimed to equip participants with the technical skills required for designing, simulating, and fabricating PCBs.

The workshop focused on:

- Introducing the fundamentals of PCB design and its applications in various industries.
- Providing hands-on experience with Ki-Cad software for schematic design and layout creation.
- Enabling students to develop skills for real-world circuit design and electronic prototyping.
- Encouraging innovation and problem-solving through interactive sessions.

Title of Workshop: Advanced PCB designing using Ki-Cad software

Date: 10th and 11th March 2025

Venue: AV Room

Organized by: Department of Physics, DCT's Dhempe College of Arts and Science, Miramar Panaji Goa.

Proceedings

A Two-day workshop on 'Advanced PCB Designing using KiCad Software' was conducted on 10th and 11th March 2025 organized by the Department of Physics of DCT's Dhempe College of Arts & Science under the aegis of DBT Star College Scheme. Mr. Abhishek Chari, Design Team Leader at Sierra Circuits, was the resource person for the workshop. The workshop aimed

to provide participants with in-depth knowledge and hands-on experience in designing Printed Circuit Boards (PCBs) using Ki Cad, an open-source EDA tool. The workshop was attended by 43 students and faculty of the college.

The workshop commenced with an inaugural session wherein the Principal, Prof. (Dr.) Ramu Murthy addressed the gathering and stated the importance of attending such seminars and workshops, which helps attain skills for better employability. The Vice-Principal and Head of Department of Physics, Dr. Swati Pawar, also stressed that the youth should become job givers rather than job seekers by acquiring new skills. This was followed by Mr. Abhishek Chari taking over.

Day 1

Mr. Abhishek Chari began by going through the basics of electrical components and their applications in various circuits. He introduced the Ki Cad software and explained its versatility to the participants, followed by an introduction to PCB design principles. He provided an overview of Ki Cad's interface, schematic capture, component libraries, and netlist generation. Participants engaged in practical exercises on creating circuit schematics and assigning footprints. The participants constructed the voltage regulator circuit using the software.

Day 2

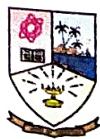
The second day focused on advanced PCB layout techniques, design rule checks (DRC), and Gerber file generation for fabrication. The session also covered multilayer PCB designs, signal integrity considerations, and best practices for PCB manufacturing. A hands-on session allowed participants to design and verify their own PCB layouts.

The workshop concluded with a Q&A session and a feedback discussion. Participants expressed appreciation for the practical approach and interactive sessions. Certificates were distributed to attendees, marking the successful completion of the workshop.

Overall, the workshop provided valuable insights into professional PCB design using Ki Cad and equipped participants with essential skills for real-world applications.

Glimpses of the Workshop





DCT's
Dhempe College of Arts and Science

Department of Physics

Two-Day Workshop on

'Advanced PCB Designing using KiCad Software'

Attendance Record

Resource person: Mr. Abhishek Chari

Venue: AV Room

Date: 10/03/2025

Time: 10:00am - 1:00pm
(Morning session)

(Day 1)

Sr no	Name	Roll No	Class	Subject	Sign
1.	Raaisa Vaz	2406107	FYBSC	AEC-B Phys/Chem	Raaisa
2.	Smilee Naik	2406188	FYBSC	AEC-B Phys/CS	Smilee
3.	Sanchita Sawant	2406186	FYBSC	AEC-B Phys/CS	Sanchita
4.	Saloni Raut	2406185	FYBSC	AEC-B Physics/CS	Saloni
5.	Dikshita Raut	2406183	FYBSC	AEC-B Physics/CS	Dikshita
6.	Agnelia Fernandes	2406166	FYBSC	AEC-B Chem-Geo	Agnelia
7.	Shreelalita Bhatmarigoli	2406170	FYBSC	AEC-B Chem-Geo	Shreelalita
8.	Arbind Kumar Kewat	2406103	FYBSC	AEC-B Phy/Chem	Arbind
9.	SUNESH. S. GROVEKAR	2406110	FYBSC	Phy/Chem AEC-B	SUNESH
10.	Vaibhav Salunke	2406189	FYBSC	Phy/CA AEC-B	Vaibhav
11.	Siya Godkar	2406109	FYBSC	Phy/Chem/ AEC-B	Siya
12.	Tushita A Phape	2406111	FYBSC	Phy/Chem AEC-B	Tushita
13.	Kathleen Ruth Collaco	2406104	FYBSC	Phy/Chem	Kathleen
14.	Amishwar A. Teli	2406102	FYBSC	Phy/Chem	Amishwar
15.	Omkar Desai	2406214	FYBSC	Phy/Chem	Omkar
16.	Kanak Naik	2406206	FYBSC	CS/Chem/ AEC-B	Kanak
17.	Shreya Pednekar	2406187	FYBSC	AEC-B Phy/CS	Shreya
18.	Aditya Mestry	2406181	FYBSC	AEC-B/Phy/CS	Aditya
19.	Rash Angane	2406190	FYBSC	AEC-B/Phy/CS	Rash
20.	Sonal Rane	2302077	FYBSC	Phy/Materials	Sonal
21.	Karan Sonawane	2406184	FYBSC	AEC-B/Phy/CS	Karan
22.	Chirag Kangji	2406182	FYBSC	Physics/CS AEC-B	Chirag

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Dhempe College of Arts and Science
Department of Physics
Two-Day Workshop on
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Date: 10/03/2025

Time: 10:00am - 1:00pm

(Day 1)

(Morning Session)

Sr no	Name	Roll No	Class	Subject	Sign
23	Ojaswi Durbhatkar	2302148	SYBSC	Physics	
24	Harish	2302070	SYBSC	Physics	
25	Miskil Naik		Faculty	Physics	
26	Omkar Dhuri	2302149	SYBSC	Physics	
27	Prachi Chodankar	2302065	SYBSC	"	
28	Om Naik	2202289	TYBSC	"	
29	Clyde J. De Araujo	2202164	TYBSC	Physics	
30	Tanay L. Naik/ Govalkar	2202275	TYBSC	Physics	
31	Gayatri Sataudekar	2302069	SYBSC	Physics	
32	Chaitra. V. Kamble	2302047	SYBSC	Physics	
33	Chinay Sharma	2406153	FYBSC	Physics	
34	Rishabh Sonth	2302150	SYBSC	Physics	
35	Abhishek Venmo	2309146	"	"	
36	Rishabh Jivani	2302151	"	"	
37	Saminkh Kamat	2302156	"	"	
38	Khushi Vishwakarma	2406208	FYBSC	CS/Chem	
39	Abhishek Deshmukh	2202225	TYBSC	CS	
40	Mita Sutji			Physics	
41.	Dr. Miskil Naik	Faculty	Physics Dept.		
42	Ms. Siddhi Parsekar	"	"		
43	Dr. Kapil Salkar	"	"		
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DCT's DHEMPE COLLEGE OF ARTS AND SCIENCE
Miramar, Panaji-Goa

Name of the Event: Advance PCB design using Kicad
Date/day: 2, 11/3/25, Tuesday Time: 10 AM - 4 PM 30 pm
Venue: AV Room (Day 2)
Attendees:

a) No. of Students:

b) No. of Faculty:

Sr no.	Roll No.	Name of the Student /Faculty	Class	Subject	Sign.
1	2406109	Suja S Godkar	FYBSC	Chem-minor AEC-B physics	<u>Godkar</u>
2	2406110	Sunesh S Godkar	FYBSC	"	<u>S</u>
3	2406111	Tushita A Phape	FYBSC	"	<u>Tushita</u>
4	2406214	Omkar Desai	FYBSC	Chem-minor AEC-B C.S practical	<u>Desai</u>
5	2202259	Om Naik	TYBSC	Physics	<u>Om Naik</u>
6	2202275	Tanay Govikar	TYBSC	Physics	<u>Tanay</u>
7	2406153	Chiray Sharma	FYBSC	"	<u>Chiray</u>
8	2202225	Abhishek Deshmukh	TYBSC	C.S	<u>Abhishek</u>
9	2302156	Sumukh Iamat	S.Y.BSC	Phy	<u>Iamat</u>
10	2302047	Chaitra V. Kamble	8.Y.BSC	Physics	<u>Chaitra</u>
11	2406206	Kanak Naik	FYBSC	C.S, Chem AEC-B	<u>Kanak</u>
12	2302150	Rishab Savant	SYBSC	Phy, AEC	<u>Rishab</u>
13	2406182	Chirag Kanaji	FYBSC	Phy, CS, AEC-B	<u>Kanaji</u>
14	2406184	Karan Sonar	FYBSC	Phy, CS, AEC-B	<u>Karan</u>
15	2406189	Vaibhav P. Salunke	FYBSC	Phy / CA, AEC-B	<u>Salunke</u>
16	2406181	Aditra Mestry	FYBSC	Phy / CA AEC-B	<u>Aditra</u>
17	2406190	Yash Angane	FYBSC	Phy / CA AEC-B	<u>Yash</u>
18	2406104	Kathleen Collaco	FYBSC	Phy / Chem	<u>Kathleen</u>
19	2406112	Twinkle Palekar	FYBSC	Phy / Chem AEC	<u>Palekar</u>
20	2406103	Arbind Kumar Kewat	FYBSC	Phy / Chem	<u>Kewat</u>
21.	2406187	Shreya Pednekar	FYBSC	AEC-B Phy / CS	<u>Shreya</u>
22.	2406107	Raaisa Vaz	FYBSC	AEC-B Phy / Chem	<u>Vaz</u>

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DCT's DHEMPE COLLEGE OF ARTS AND SCIENCE
Miramar, Panaji-Goa

Name of the Event: Advance PCB Designing using Kicad

Date/day: 2, 11/3/25

Time: 10AM-4PM

Venue: Dhempe College of Art's & science, AV Room

Attendees:

a) No. of Students:

(Day 2)

b) No. of Faculty:

Sr no.	Roll No.	Name of the Student /Faculty	Class	Subject	Sign.
23	2406164	Agnilia Fernandes	FYBSC	Chem (Geo) AEC (B)	Alfern
24	2406170	Shreelalita Bhatmarigoli	FYBSC	Chem (Geo) AEC (B)	Shreelalita
25	2302077	Sonal Rane	SYBSC	Physics Mathematics	Sonal
26	2302070	Harish	SYBSC	Physics Mathematics	Harish
27	2302069	Gayatri Saptandeka	"	Physics Mathematics	Gayatri
28	2302149	Omkar Dhuri	"	"	Omkar
29	2302055	Prachi Chopadekar	SYBSC	"	Prachi
30	2302148	Ojaswi Durbhatkar	SYBSC	Physics Phy (major) CS (minor)	Ojaswi
31	2406185	Saloni Raut	FYBSC	Physics AEC	Saloni
32	2406186	Sanchita Sawant	FYBSC	"	Sanchita
33	2406188	Sunee Naik	"	"	Sunee
34	2406183	Dikshita Raut	"	"	Dikshita
35	Faculty	Dr. Mishil Naik	-	Physics	Naik
36	"	Dr. Kapil Salkar	-	"	Salkar
37	"	Ms. Siddhi Parocheva	-	"	Parocheva

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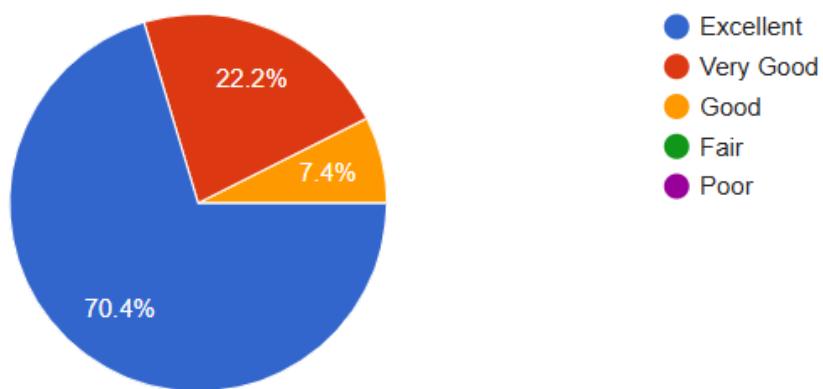
Feedback form

Feedback form - Two day's workshop on Advance PCB designing using KiCad Software (10th and 11th March 2025)

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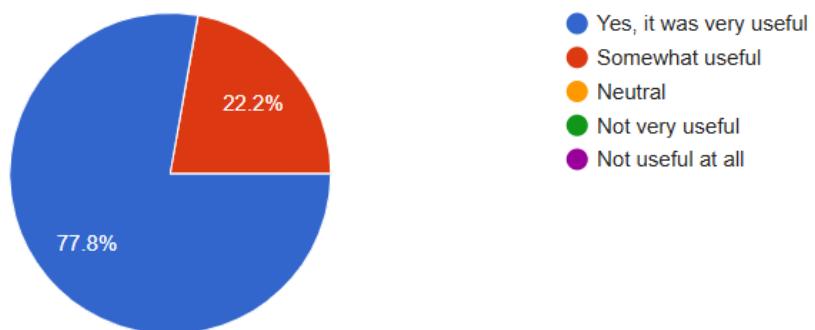
How would you rate the overall session ?

27 responses



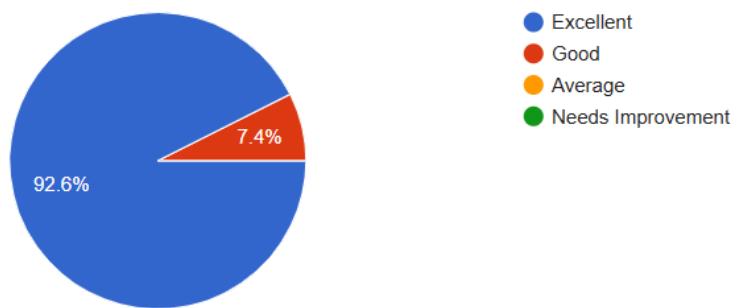
Was the workshop content relevant and useful for your learning?

27 responses



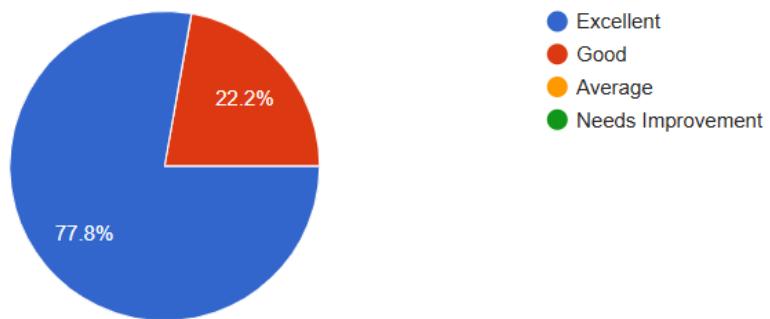
How well did the instructor explain the concepts?

27 responses



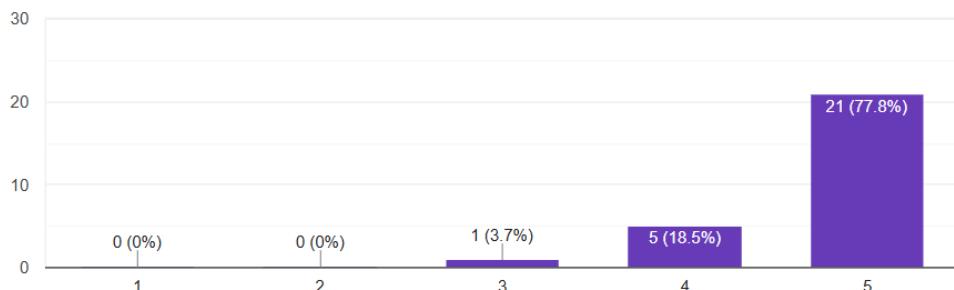
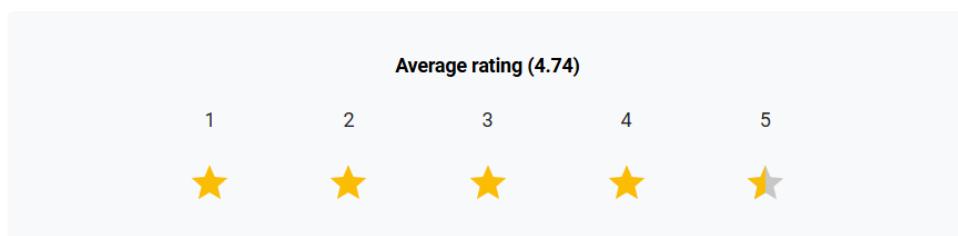
How was the quality of the provided materials (presentation, software resources, practice exercises, etc.)?

27 responses



How would you rate the quality of the food provided during the workshop?

27 responses



Any other comments or suggestions?

27 responses

Overall it was good we didn't get bored during the session and it was intrest

Good

Nothing

It's very much interesting and knowledgeable session. Very good for our future

No suggestions

Very well explained I wish he could be our one of the physics tr.

Very good 👍

Overall it was a great session

Good

Dr. Swati Pawar
Coordinator &
Head, Department of Physics

Prof. (Dr.) Ramu Murthy
Principal