



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Assurance of quality

ISTE Student Chapter Initiative
3-days Student Development program
on

"PCB Design and Fabrication"

20/06/2023 to 22/06/2023

Resource Person/s

Mr. Rakesh B.H,
COE & Trainer
Rlogic Technologies
Bangalore,

Event coordinators

Mr. Santhosh B G/ Mrs. Revathi S N
Assistant Professor

Signature of Dr. Praveen J

Verified By

Dr. Praveen J
Head of the Department

Head of the Department
Dept. of Electronics & Comm. Engg.
GM Institute of Technology
DAVANGERE-577 006

Signature of Dr. Sunil Kumar B S

Checked by

Dr. Sunil Kumar B S
Dean Academics

DEAN ACADEMICS
G.M. Institute Of Technology
DAVANGERE-577006.

Signature of Dr. Praveen J

Checked by

Dr. Praveen J

IQAC-Director
Davangere - 577 006.

Signature of Dr. Sanjay Pande M B

Approved by

Dr. Sanjay Pande M B

Principal
PRINCIPAL

GM Institute of Technology
Davangere - 577 006.



Slrshyla Educational Trust (R), Bheemasamudra

**GM INSTITUTE OF TECHNOLOGY, DAVANGERE**

Approved by AICTE | Affiliated by V.T.U Belagavi | Recognized by Govt. of Karnataka



**Department of Electronics and Communication Engineering**



# Invitation

We cordially invite you for the  
**4-days Student Development program**  
on  
**“PCB Design and Fabrication”**

**20<sup>th</sup> to 22<sup>nd</sup> June 2023**

**Convener:**

**Dr. Praveen J**  
IQAC-Director  
Professor & Head  
Dept. of ECE, GMIT

**President:**

**Dr. Sanjay Pande M B**  
Principal  
GMIT, Davangere

## Resource Persons

**Mr. RAKESH B.H**  
Trainer  
Rlogic Technologies, Bangalore

## Coordinators

**Mr. Santhosh B G**  
Assistant Professor  
Dept. of ECE, GMIT

**Mrs. Revathi S N**  
Assistant Professor  
Dept. of ECE, GMIT

## Organized By:

**Department of Electronics and Communication Engineering**  
in association with **ISTE Student Chapter, GMIT, Davangere.**

**Venue: Communication Lab, ECE Department.**

**Date: 20<sup>th</sup> June 2023 Time: 9:30 AM**



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Report on 3 day Workshop of "PCB Design and Fabrication"

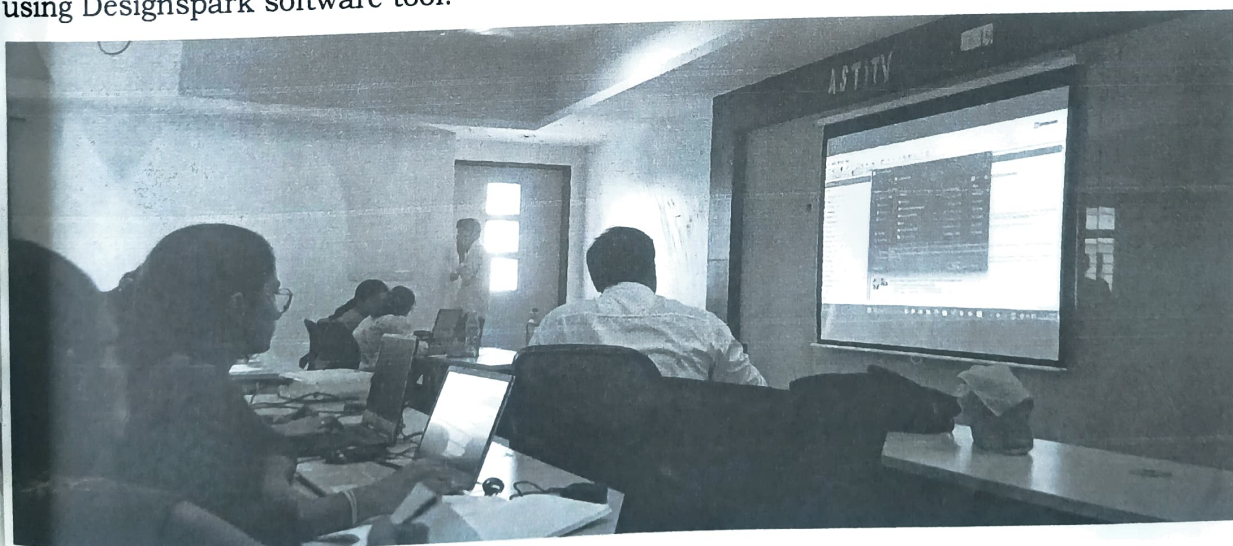
PCB Design and fabrication, means building an actual circuit to a theoretical design to verify that it works.. It is a very exciting and interesting way to learn, apply and understand engineering principles.

PCB Design and Fabrication Workshop is 100% hands on workshop, where students/Participants can design & develop their own PCB board and can perform product development. Participants will learn PCB design using Design spark PCB software. Then they will print the design on copper clad using toner transfer method followed with few scientific steps. Once the PCB is ready, we need to mount all the required electronic components on it with soldering.

To enhance the technical skills in students Electronics and Communication Department of GMIT organized 3 days workshop on PCB Design and Fabrication in collaboration with Rlogic Technologies from 20/06/2023 to 22/06/2023. The workshop was conducted from ISTE Student chapter GMIT in collaboration with RLOGIC TECHNOLOGIES.

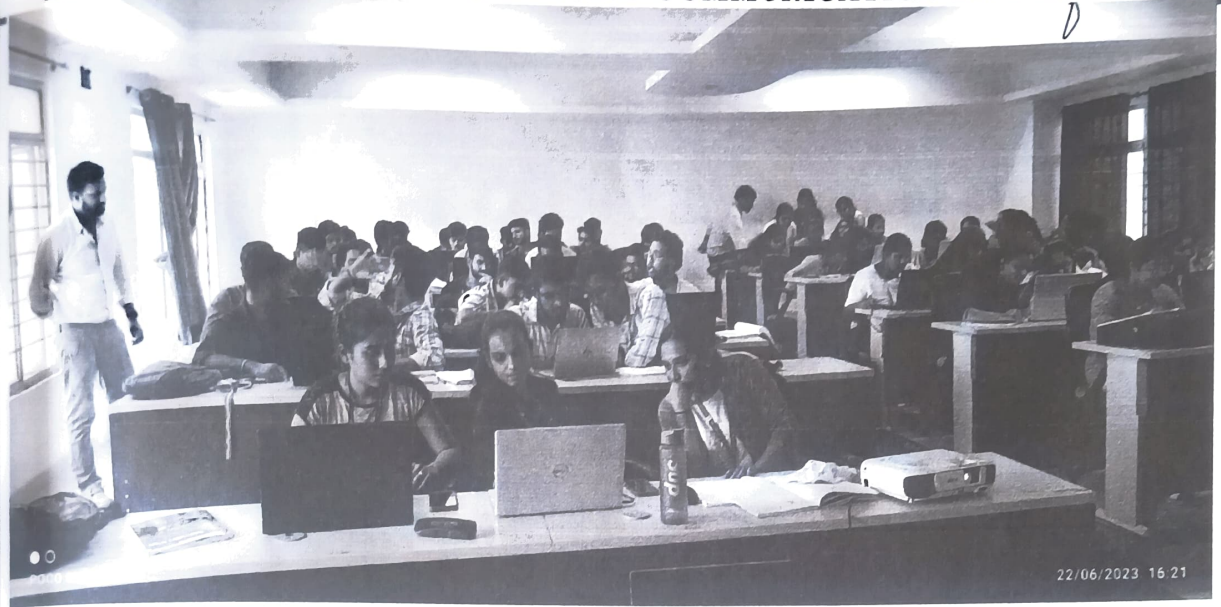
RLOGIC TECHNOLOGIES is a company from Bangalore. A team of well-trained engineers from RLOGIC TECHNOLOGIES conducted workshop for 4<sup>th</sup> semester A section ECE students.

During the first session on 20<sup>th</sup> June from 9.00 am to 11.00 am resource person Mr. Rakesh B H explained about the basics of PCB and how to draw schematics for PCB using Designspark software tool.



Design Spark Software Installation

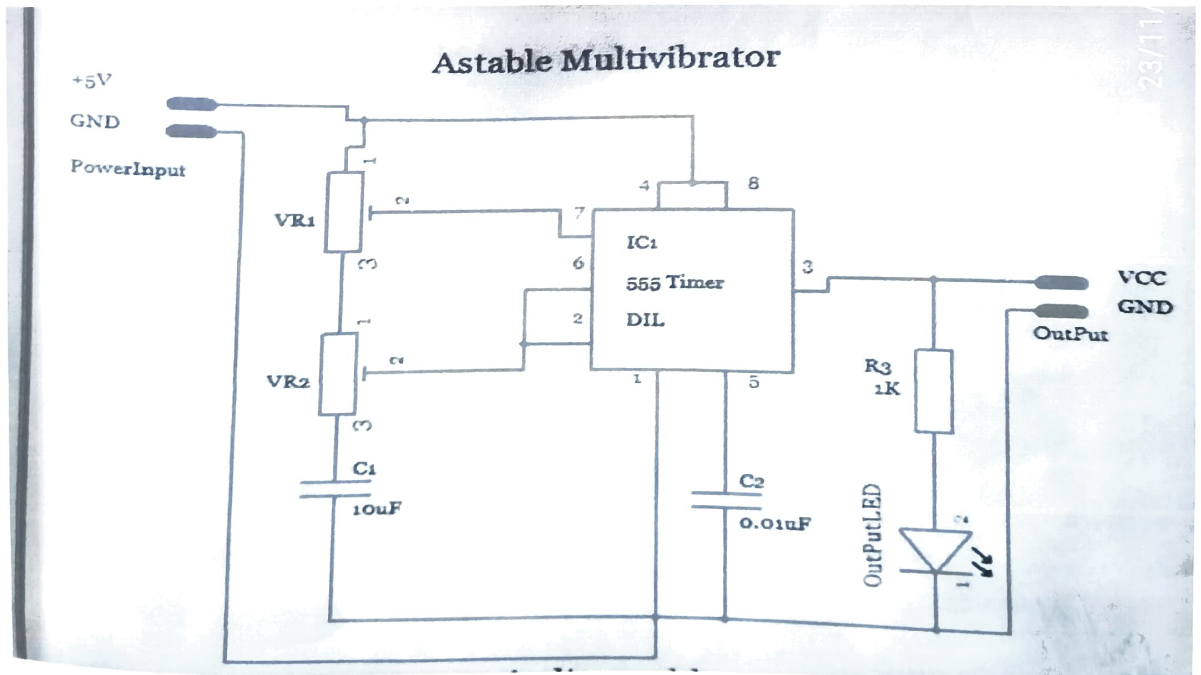
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Rectifier Circuit Design in Spark tool software

In 2<sup>nd</sup> session from 2.00 PM to 5.00 PM the session was completely hand on session, simulation using Designspark software.

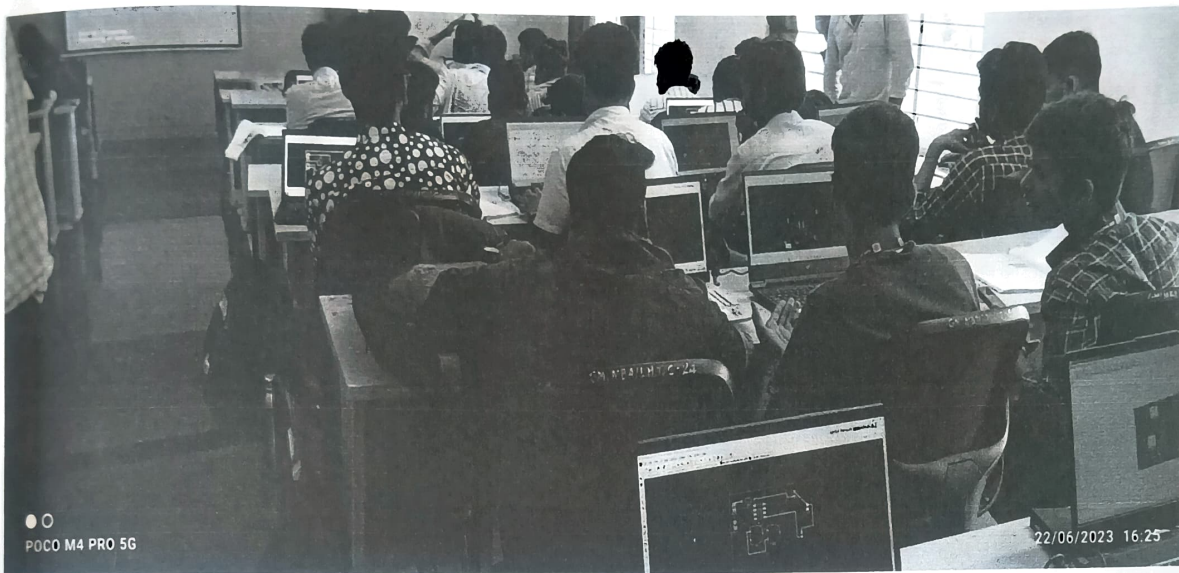
Day 2 on 21/06/2023 the resource person Mr. Rakesh B H taught how design different schematics circuits by using design spark software tool.



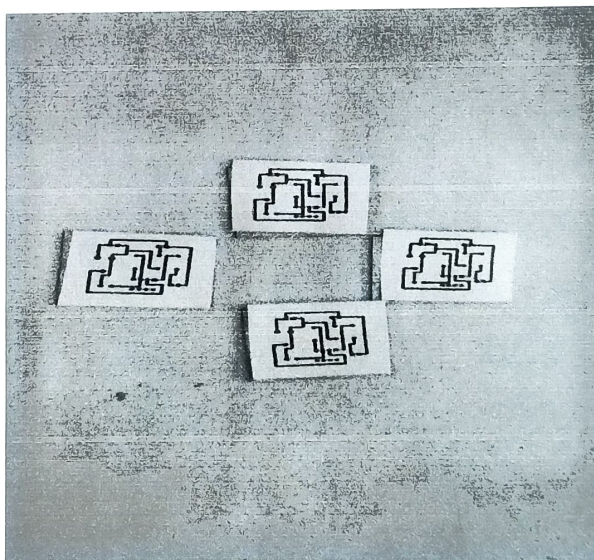




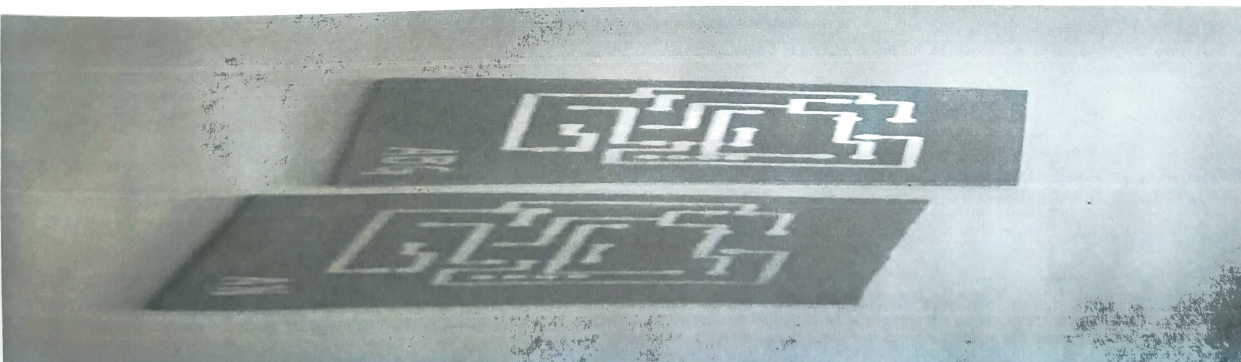
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The Afternoon Session was Completely Hands on Session for Participants. 4 resource persons helped participants to develop their Schematics of different circuits.



Schematic generation using Designspark software



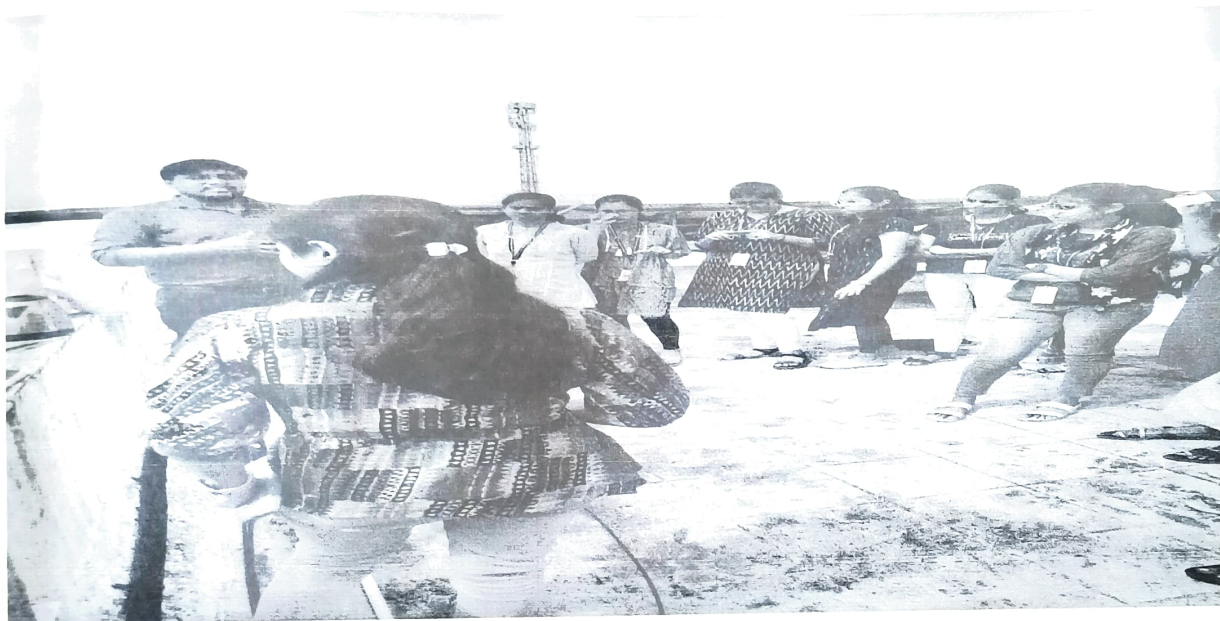
Printing the schematic on copper clad using toner transformation method





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Third day session was conducted on 22/06/2023. The morning session from 9.00 am to 1.00 pm. Students involved in workshop with great enthusiasm and developed their own PCB Fabrication by including following steps such as Clad cutting, etching by using Ferric Chloride and salt in hot water.

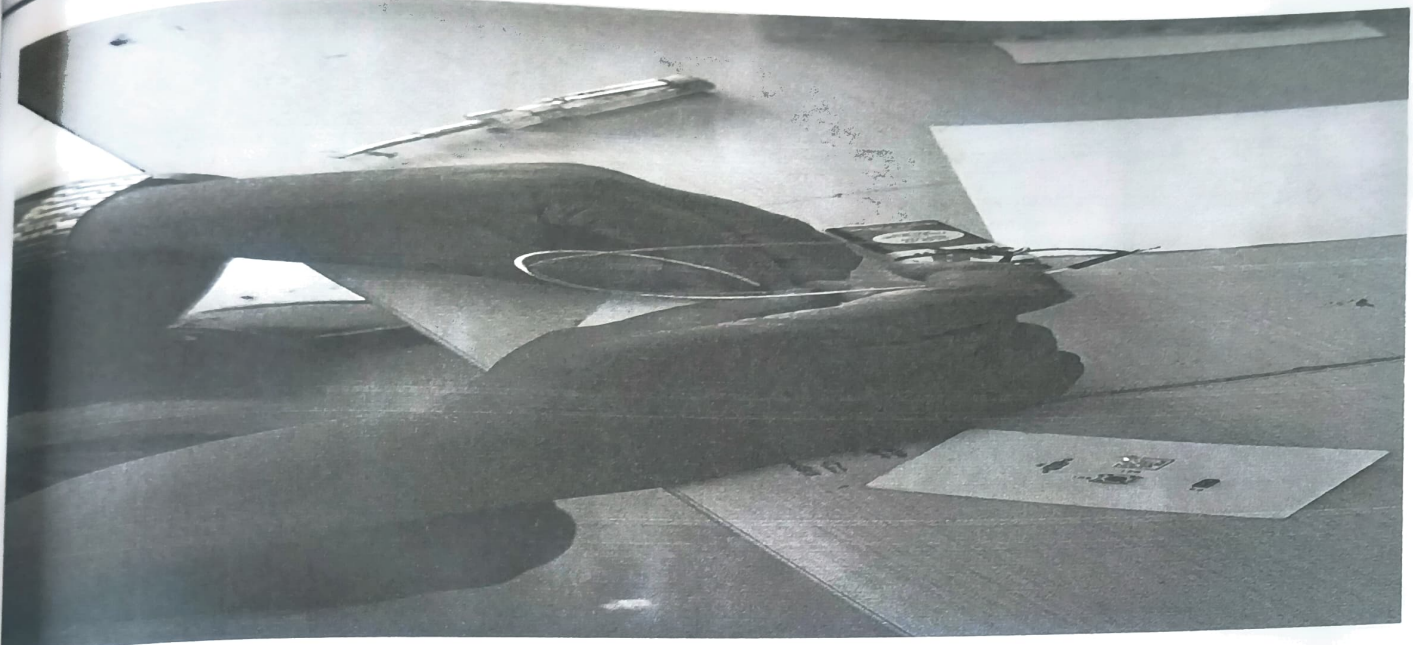


PCB Fabrication

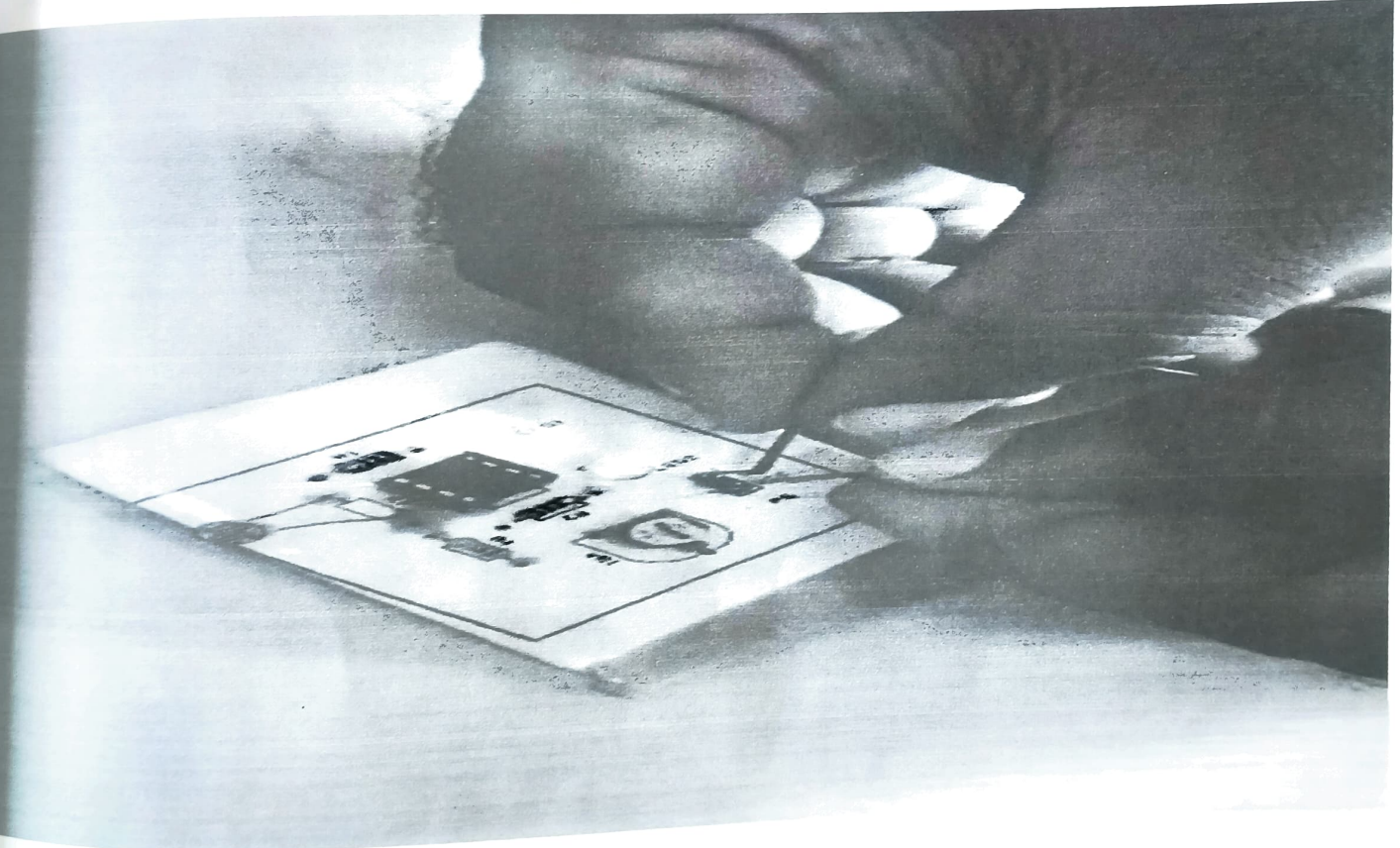




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Testing of circuits on PCB



PCB circuits output



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The workshop was concluded with a valedictory function. During the function **Dr. Sanjay Pande M B**, Principal addressed the gathering. And Dr. Praveen J Professor and Head ECE Department, GMIT., addressed the gathering. Students improved their technical skills and enjoyed by making their own PCB. Participants gave good feedback on workshop few snapshots taken during the workshop is attached here.



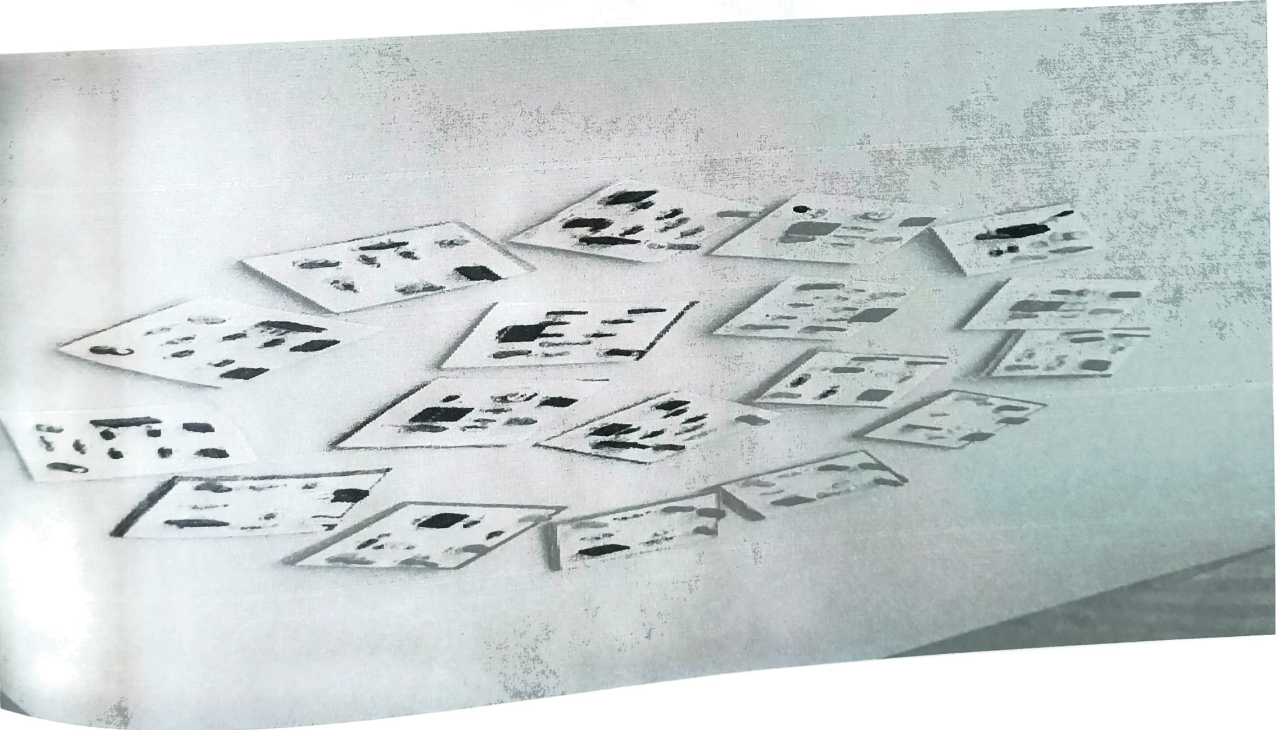
Valedictory of 3 day workshop on **"PCB Design and Fabrication"**



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**Glimpses of 3day Workshop on "PCB Design and Fabrication"**





Format

# CERTIFICATE

PRESENTED TO



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*for Participating in workshop on **PCB Design & Fabrication** Organized by the  
Department of Electronics & Communication Engineering In association with  
Rlogic Technologies at GM Institute of Technology ,Davangere from 20 to 23 of  
June 2023*

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Mr.Rakesh B H  
Director,Rlogic Technologies

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Dr. Praveen J  
HoD

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Dr. Sanjay Pande M B  
Principal