



Sushyla 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



Assurance of quality

**ISTE Student Chapter Initiative
3-days Student Development program**

on

“PCB Design and Fabrication”

23/06/2023 to 25/06/2023

Resource Person/s

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

Event coordinators

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

Verified By

Dr. Praveen J
Head of the Department

Checked by

Dr. Sunil Kumar B S
Dean Academics

Checked by

Dr. Praveen J
IQAC-Director

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

GM Institute of Technology
Davangere - 577 006.

Approved by

Dr. Sanjay Pande M B
Principal
PRINCIPAL
GM Institute of Technology
Davangere - 577 006.



Snishya Educational Trust (R), Dheemasamudra

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”

23rd to 25th 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: 23rd June 2023 Time: 9:30 AM

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****Report on 3 day Workshop of “PCB Design and Fabrication”**

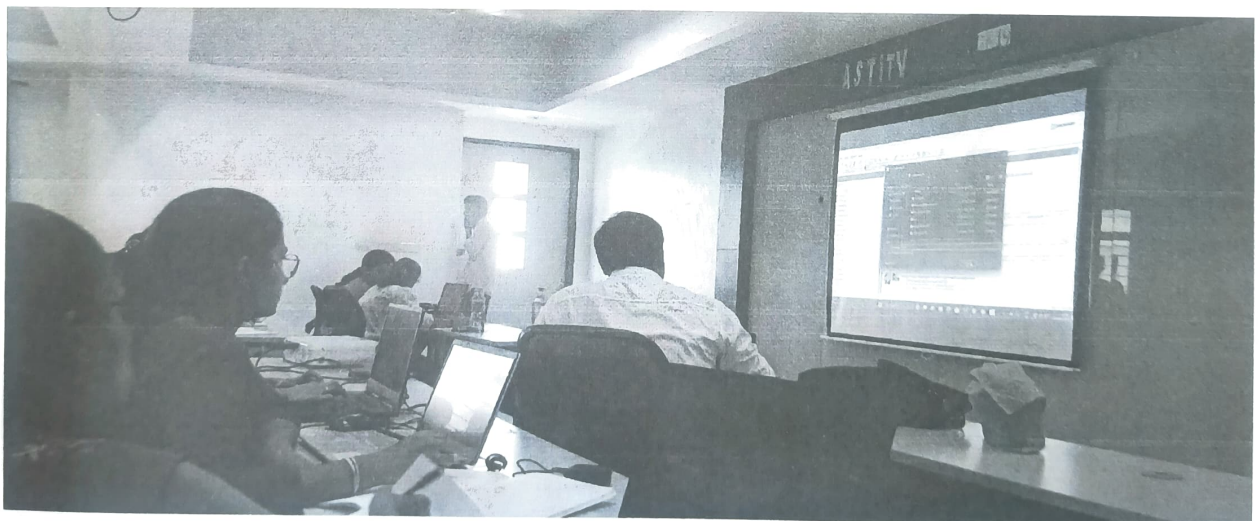
PCB Design and fabrication, means building an actual circuit to a theoretical design to verify that it works. It is a very exciting and interesting way to learn, apply and understand engineering principles.

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 23/06/2023 to 25/06/2023. 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 4th semester B section ECE students.

During the first session on 23rd 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



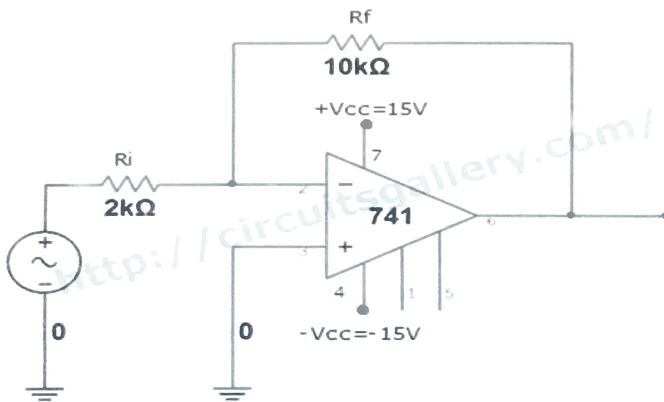
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Rectifier Circuit Design in Spark tool software

In 2nd session from 2.00 PM to 5.00 PM the session was completely hands on session, simulation using Designspark software.

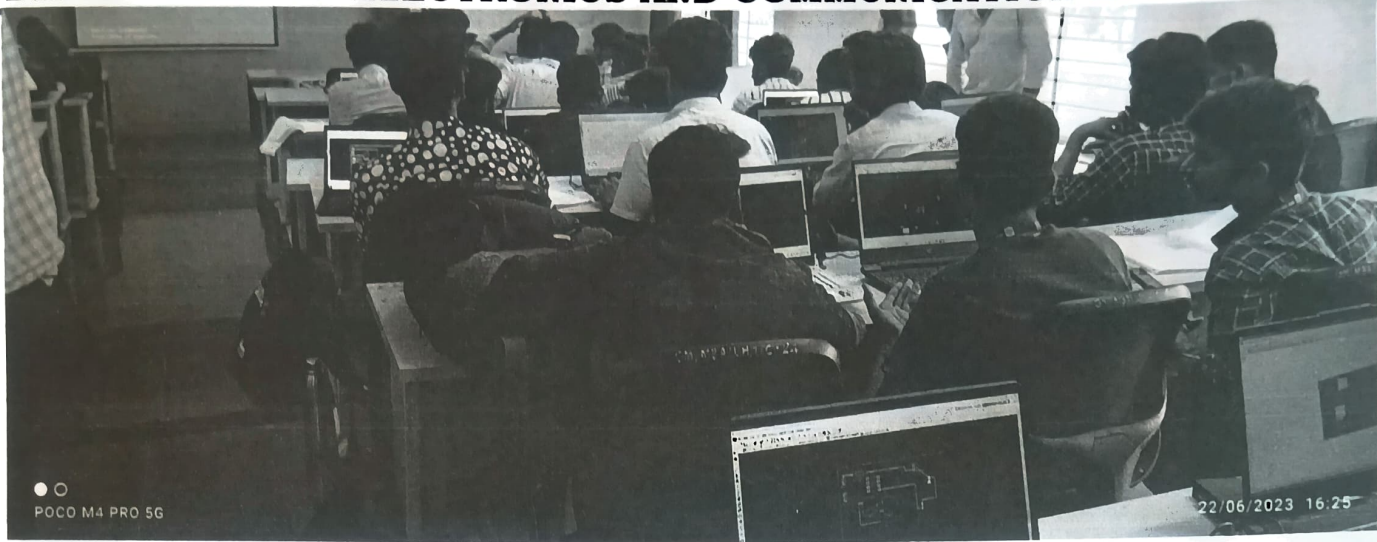
Day 2 on 24/06/2023 the resource person Mr. Rakesh B H taught how to design different schematics circuits by using design spark software tool.



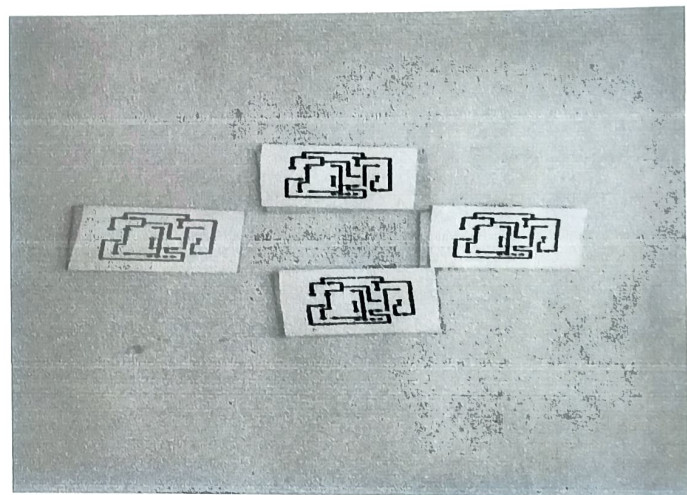
Circuit Diagram of Inverting Amplifier



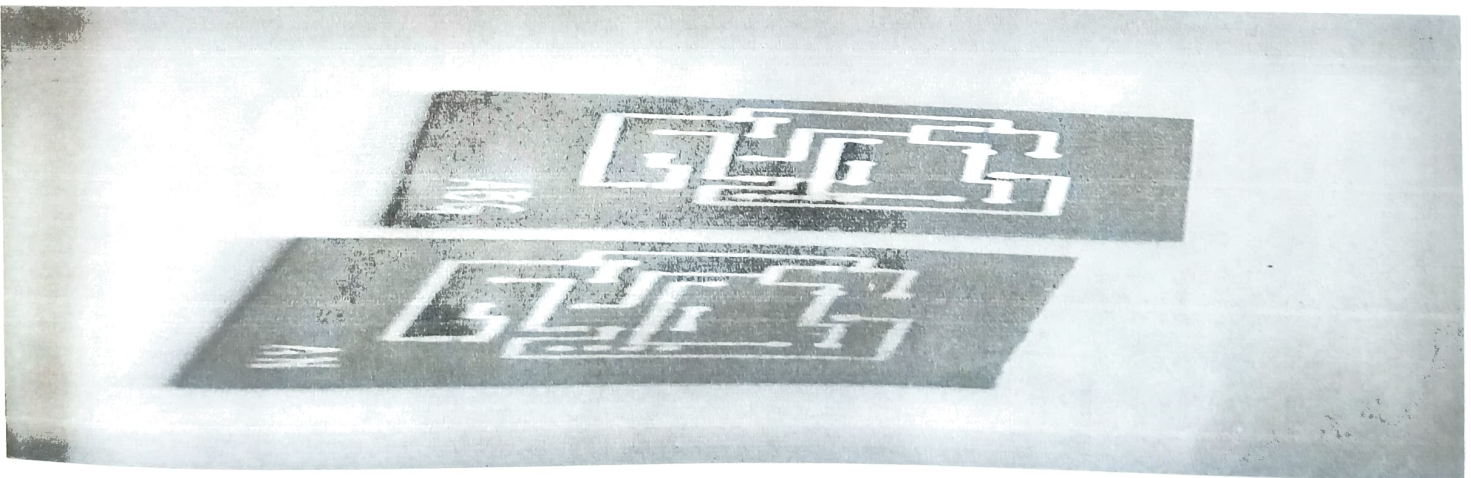
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



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



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Third day session was conducted on 25/06/2023. The morning session from 9:00 am to 01:00 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





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



PCB circuits output

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.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Valedictory of 3 day workshop on **“PCB Design and Fabrication”**



Glimpses of 3day Workshop on **“PCB Design and Fabrication”**



CERTIFICATE

PRESENTED TO



*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*

Mr. Rakesh B H
Director, Rlogic Technologies

Dr. Praveen J
HoD

Dr. Sanjay Pande M B
Principal