



Ref: GTU/CiC3/ROBOTICS CLUB/ 4217

Date: 7th June 2018

Workshop on PCB Design

A Printed Circuit Board (PCB) mechanically supports and electrically connects electronic components using conductive tracks, pads and other features etched from copper sheets laminated onto a non-conductive substrate. PCBs can be single sided (one copper layer), double sided (two copper layers) or multi-layer. Conductors on different layers are connected with plated-through holes called vias. Advanced PCBs may contain components – capacitors, resistors or active devices – embedded in the substrate.

Printed circuit boards are used in almost all of the electronic products.

OBJECTIVE OF THE WORKSHOP:

The Main objective of this workshop is to make the students conceptually and practically aware about:

- Understanding of the steps and processes involved in PCB design Process
- PCB Fabrication Process
- Schematic Capture using Industry Standard Schematic Capture tools
- Preparation of Board for Layout
- Simulation on Software
- Gerber file Creation and View
- Practical hands on to demonstrate PCB fabrication of a circuit

Who Could Attend?

- College students seeking future in Core Electronics and Embedded System.
- B-Tech/M-Tech/Diploma college students of ECE/EE/EE field.
- Students who tried their hands on basic electronics.
- College Faculty & Staff in ECE/EE/EE department.

Student's Benefits

- Receive an unparalleled training through best methodology from CiC3 Team Member with personal one-on-one attention.
- Learn and interact with GTU ROBOCON, GTU Mitsubishi Electric Cup Team
- Improve your career prospects and get an edge over your counterparts.
- Interactive Query sessions, Live Demos, PowerPoint Presentation.

Resource Person: Prof. Raj Hakani (Asst. Prof, CiC3) & ACDC Team

I/C Registrar

*Winners of : ICT Enabled University Award E-India - 2009 ❖ Manthan Award - 2009 ❖ GESIA Award - 2011
❖ Digital Learning WES - 2011 Award ❖ AIMS International Innovative University Award - 2013*



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act No.: 20 of 2007)

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(ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

EVENT CALENDAR

Zone:

Ahmedabad

Rajkot

Date

7th & 8th July 2018

14th & 15th July 2018

Time:

10:30 AM to 5:00 PM

10:30 AM to 5:00 PM

Venue:

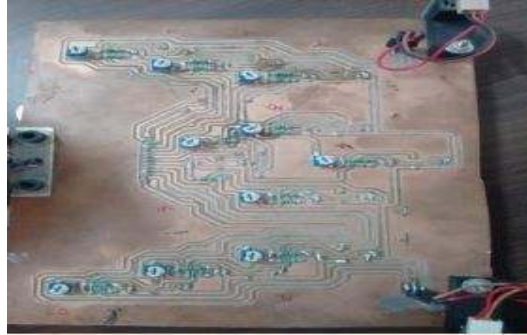
**Gujarat Technological University
CiC3 (IIT Shed No.2)
B0, Hall GTU**

**GTU Innovation and Startup
Centre - Rajkot Hub**

**Nr. Vishwakarma Government
Engineering College
Nr. Visat Three Roads, Visat -
Gandhinagar Highway Chandkheda,
Ahmedabad – 382424 - Gujarat**

**AVPTI Campus,
Opp. Hemu Gadhavi Hall,
Tagore Road, Rajkot 360001**

Developed PCB by Students



TOPICS and HANDS-ON ACTIVITY IN THE WORKSHOP:

- Introduction to PCB Design Process and Software Tools used
- Developing the PCB Design Schematic, auto and manual Routing of the Circuit
- Steps in PCB Design Process (including Gerber file creation) explained in detail
- Drilling and Placement of Components, with Final Soldering
- Awards and Certificates
- Final Concluding Remarks

TRAVEL AND ACCOMMODATION

Participating faculties/students have to make necessary arrangement for their travel and accommodation and TA/DA will not be provided

REGISTRATION FEE

Fees: 100/- Rs for Student from GTU affiliated Colleges (College ID Card is compulsory)
150/- Rs. for Non GTU Students.

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Chandkheda : Nr. Campus of Vishwakarma Government Engineering College, Sabarmati - Koba Highway, Nr. Visat Three Roads, Chandkheda, Ahmedabad - 382 424. Gujarat, India Ph. : 079 - 232 67 500
Ahmedabad : 2nd Floor, ACPC Building, L. D. College of Engineering Campus, Navrangpura, Ahmedabad, (Gujarat) India - 380 015. Phone : + 91 - 79 - 26 300 499 / 599 Fax : + 91 - 79 - 26 30 1500
Gandhinagar : K-6 Circle, E-4 Electronic Estate G.I.D.C., Nr. Government Polytechnic, Sector-26, Gandhinagar - 382 028 Gujarat.
e-mail : info@gtu.ac.in URL : www.gtu.ac.in



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Before Payment Kindly go through Registration Link and Check Registration Full or Not

HOW TO REGISTER?

Fill registration form online using below mentioned link on

Registration Link:

For Ahmedabad Zone: <https://goo.gl/forms/yXnE6cxz3rESNXbH3>

For Rajkot Zone: <https://goo.gl/forms/6skGasEAE8DZ9HQJ3>

Step 1: Open Following Link in browser

Link: <https://www.onlinesbi.com/prelogin/institutiontypedisplay.htm>

Select: State of Corporate/Institution as **Gujarat**

Type of Corporate/Institution: **Education Institutes**

Press **Go** for Next Step

State Bank Collect 02-Jan-2018 [12:15 PM IST]

Select State and Type of Corporate / Institution

State of Corporate/Institution *

Type of Corporate/Institution *

Step 2: Educational Institutions Name: **Gujarat Technological University**

Press **Submit** for Next Step

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Select from Educational Institutions *

Educational Institutions Name

Mandatory fields are marked with an asterisk (*)

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Step 3: Select Payment Category: **OTHER FEE_GRANT**

Fill up your Detail

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SABARMATI KOBA HIGHWAY CHANDKHEDA, , AHMEDABAD-382424

Provide details of payment

Select Payment Category *

REGISTRATION FEES FOR CONFERENCE

❖ Mandatory fields are marked with an asterisk
❖ The payment structure document if available
❖ Date specified(if any) should be in the format of 'ddmmyyy'. Eg., 02082008

Press **Submit** for Payment

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SABARMATI KOBA HIGHWAY CHANDKHEDA, , AHMEDABAD-382424

Provide details of payment

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CATEGORY *

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REGISTRATION FEES AMOUNT FOR CONFERENCE *

Remarks

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