

K L UNIVERSITY



DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

A TWO DAY WORKSHOP ON PCB DESIGN

REGISTRATION FORM

Name: _____.

Designation: _____.

Department: _____.

Category: Student/Research Scholar

/Faculty.

Organization: _____.

Address: _____.

_____.

Phone/Mob No: _____.

Email-id: _____.

Amount: _____.

Date: _____ Signature of participant

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DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

A TWO DAY WORKSHOP ON PCB DESIGN

JANUARY 24th & 25th
ORGANISED BY

EMBEDDED SYSTEMS
RESEARCH GROUP



IN ASSOCIATION WITH
IETE STUDENT CHAPTER
KLU

CONVENER
DR. K.SREENIVASA RAVI
Professor, Dept of ECM

ABOUT K L UNIVERSITY

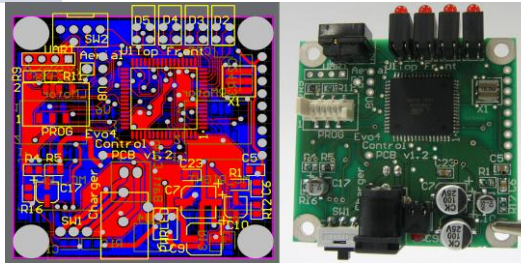
K L University is a pioneer in the field of engineering education and research in private sector. It was established as Koneru Lakshmaiah College of Engineering in the year 1980, situated in a spacious 60 acre campus on the banks of Buckingham canal of river Krishna, 8 Km away from Vijayawada. The institute is accredited by National Assessment and Accreditation council (NAAC) of UGC with A grade K L University has knowledge base stems with the presence of eminent and highly qualified academic staff, numbering 600+ out of which 155+ doctorates and 300+ pursuing PhDs is one of the best for any engineering institute. KLU offers 10 UG programs, 14 PG programs, 28 integrated degree programs, and dual degree programs. In addition to this research program has been offered in 14 disciplines.

ABOUT THE WORKSHOP

This workshop aims to design the layout of an electronic circuit, using open source KiCAD PCB design software, with various active and passive components, such as regulators, diodes, resistors, capacitors, inductors, switches, transformers, etc. A printed circuit board, or PCB, is used to mechanically support and electrically connect electronic components using conductive pathways, tracks or signal traces etched from copper sheets laminated onto a non-conductive substrate. Today printed circuit boards are used in virtually all but the simplest commercially produced electronic devices, and allow fully automated assembly processes that were not possible or practical in earlier era tag type circuit assembly processes. Consumers are driving industry growth with a desire for cool products. Great technology is no longer enough to differentiate a product.

TOPICS OF WORKSHOPS

- Basic PCB concepts.
- Drawing the schematic
- Editing and routing.
- Creation of a library, Components.
- Report generation.
- Other software's
- Manufacturing of circuit engraved PCB



RESOURCE PERSONS

The resource persons are eminent Researchers from Industry PRAYOG

Tools used: KI-cad Software.

Price per student: Rs.600/-Student

Duration: 12-14 Hours (2 day program).

Eligibility: B.Tech/ M.Tech- ECE, ECM EEE, CSE

Training outcome: Participates will be certified on successful completion of the workshop BY Prayog and KLU

CONTACT FOR REGISTRATIONS

Mr. D. B. K. Kamesh, Mobile: 8179139565;

Email: kameshdbk@kluniversity.in

Mr. B.Naresh Kumar Reddy,

Mobile: 996653909 Email:

bnkreddy@kluniversity.in

Mr. K.SripathiRoy, Mobile: 9963436838

Email: kogantisripathroy@kluniversity.in

Student Organizers:

B. Vishnu (M-Tech-ES), KLU

Abhishek G (B-Tech ECM), KLU

Y. Sudheer (B-Tech ECM), KLU

Mobile: 9705282439,9490761922

Mail: gsnabhishek@gmail.com

yadamreddysudheer@gmail.com

Training Schedule

Day ONE

Time

1:00 to 1:30

1:30 to 2:30

2:30 to 3:00

3:00 to 3:15

3:15 to 4:15

4:15 to 6:00

Day TWO

9:00 to 10:45

10:45 to 11:00

11:00 to 1:30

1:30 to 2:00

2:00 to 6:00

Content

Inauguration

Introduction to the workshop and PCB
KiCAD- Introduction and Simple Circuit Design (First Step)

Tea Break

Netlist Generation (Second Step) and Explanation on footprints PCB Designing (Third Step)

Assignment circuit Schematic Design Netlist Generation on Assignment Circuit

Tea Break

Toner Transfer Method Explanation, Soldering Techniques, Etching process

Lunch

Drilling the Boards, Soldering and Testing the board. (With a tea break for 15 minutes)