PCB and Analog Circuit Design

This workshop will provide college students a base to Printed Circuit Board Designing. They will be developing their own models by their own hands. These projects focus on PCB Designing. The workshop focuses on application and use of technology rather than their internal working so that a person can grasp the concepts well.

Topics to be Covered:

Introduction

PCB & Analog Circuit Designing

Basic of Hardware & Software

New & Upcoming Technologies

PCB Designing Software (PSpice & Eagle)

Different tools used for PCB designing

Introduction to all types of electronics components and testing/measuring instruments.

Practical verification of electronic components with Multimeter.

Different Circuit on PCB Designing Software.

DC/AC Analysis of circuits. RC, RL, RLC Circuits & Resonance.

Transformer Designing

Diode & Application Circuits

Clipper and Clamper Circuit

BJT/JFET Amplifier Designing

Operational Amplifiers & Application Circuits

Flip Flops Designing

Analog Filter Designing

Voltage Regulators & Power Supply Circuit Design Oscillator Circuit.

Schematics of Different Circuit

Training of Soldering & De-soldering Technique

Soldering Techniques

Different Methods of Soldering

How to solder different components

PCB Designing

Making circuit on PCB Design Software

Deploying basic circuits from paper to schematic window

Testing the schematic for errors

Making Board Layout

Checking for errors and finalizing layout

Etching process

Drilling and Soldering methods of PCB

Testing and Trouble shooting

Testing and troubleshooting once your PCB is ready.

Various trouble shooting techniques.

Eligibility: It\'s a basic level workshop so there are no prerequisites. Anyone interested, can join this workshop.

Fee: Rs. 1300/-(inclusive of all Taxes) per participant. Kit to be given in group of 5.