

Certificate course :PCB Designing

Unit I

CIRCUIT DESIGNING

Circuit: Need of Circuit Designing. Introduction to Basic Components like Resistor, Capacitor, Inductor etc.

10 hours

PCB DESIGNING

PCB : Introduction to PCB and Need of PCB .Types of PCBs, Machines used for designing, The Designing Process(Theory) .

10 hours

EAGLE SOFTWARE

Introduction to the software EAGLE CAD soft keys knowledge. Creating new circuit schematic layouts.

10 hours

PRACTICALS

SCHEMATIC LAYOUT :

Beginning a new Schematic , Placing items in the schematic, placing symbols and ports labeling components,editing the schematic, working with Sheets and Ports, Checking the Schematic for Errors.

12hours

PCB LAYOUT:

Beginning a New Layout, Placing Items in the Layout,Editing the Layout,Placing Power and Ground Planes ,Changing the Board's Perimeter,Linking the Schematic and PCB Keyboard Shortcuts Troubleshooting error.

20 Hours

PCB PRINTING AND ETCHING :

Introduction to printing process,Placing of circuit on copper clad, Etching process for final PCB

20 hours

DRILLING AND SOLDERING:

Drilling of designed PCB,Soldering Process of Components, Testing & Troubleshooting

20 Hours

