

CETPA INFOTECH PVT. LTD.

CURRICULUM OF PCB & CIRCUIT DESIGNING

❖ INTRODUCTION TO CIRCUIT DESIGNING

- Need of Circuit Designing
- Introduction to Basic Components like Resistor, Capacitor, Inductor etc.
- How to select components
- Basic Circuit Designing Process

❖ INTRODUCTION TO PCB DESIGNING

- Types of PCBs
- Machines used for designing
- The Designing Process

❖ EXPRESS SCH

- Beginning a New Schematic
- Placing Items in the Schematic
- Placing Symbols and Ports
- Labeling components
- Editing the Schematic
- Creating New Components
- Working with Sheets and Ports
- Checking the Schematic for Errors

❖ EXPRESS PCB

- Beginning a New Layout
- Placing Items in the Layout
- Editing the Layout
- Placing Power and Ground Planes
- Changing the Board's Perimeter
- Creating New Components
- Linking the Schematic and PCB
- Keyboard Shortcuts
- Troubleshooting errors

❖ PROTEUS

- Introduction to Proteus
- Components Libraries
- Components Properties
- Interfacing for circuitry
- Burning IC in Proteus
- Circuit Simulation
- Connection Trouble Shooting

❖ PCB PRINTING AND ETCHING

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

❖ DRILLING AND SOLDERING

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

❖ OTHER CAD SOFTWARES FOR PCB

- Pad2Pad
- Multisim
- Eagle
- OrCAD

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CETPA[®]

Because Knowledge Matters

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