

Grace Tech Solutions

Training | Development | Placement

PCB Designing Course Content

Introduction to PCB & Circuit Designing

- Introduction to Basic Components like Resistor, Capacitor, Inductor etc.

Introduction to PCB design software:

- Different tools used for PCB designing

Hands on PCB design software:

- Masking different circuit
- Different circuit on PCB design Software
- Schematic of Different Circuits
- Designing different circuit
- Checking for errors

Soldering Techniques:

- How to solder different components
- LED Design Patterns
- Use of Flux in Soldering
- Soldering iron Precautions
- Solder and solder Materials Precautions
- Checking for errors and de-soldering Techniques

Different PCB Design Software:

- Making Circuit on PCB Design Software
- Deploying basic Circuit from paper to Schematics Window
- Testing the Schematics for errors

- Making Board layout
- Checking for errors and finalizing Layout
- Designing circuit on PCB software
- Checking for errors in circuit
- Finalizing circuit schematic

Etching process:

- Safety precautions before starting the etching process
- Getting PCB ready for etching
- Etching the PCB
- Checking for errors
- Cleaning the PCB

Advanced circuit on PCB design software:

- Testing the schematic for errors
- Making Board Layout
- Checking for errors and finalizing layout
- Designing Advanced circuit on PCB software
- Checking for errors in circuit
- Finalizing circuit schematic

Advanced PCB design software:

- 1-EAGLE
- 2-ORCAD
- 3-PROTEUS
- 4-ALTIUM
- 5-CAM 350
- 6-KIKAD
- 7-EXPRESS PCB

Express such software:

- 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

PROTEUS :

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

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

Grace Tech
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