

Certificate Course on Printed Circuit Board Design, Analysis and Manufacturing Techniques

Duration: 90 Hrs

1. Basic Electrical and Electronics Component (Duration: 20 Hrs)

Basic Electronics Concept, Introduction to Circuit Designing, Need of Circuit Designing, Basic Circuit Designing Process., Introduction to PCB Designing Process

2. PCB Design Process an Overview (Duration: 15 Hrs)

Getting started with PCB software, The Schematic work environment, Starting a project, Setting up your project

3. PCB Design Process (Duration: 25 Hrs)

Placing, editing, and connecting parts and, electrical symbols, Adding and editing graphics and text, Changing your view of a schematic page, Implement assembly techniques for leaded and SMDs.

4. Application Oriented Design and Fabrication (Duration: 30 Hrs)

Adding Copper Areas, Ratlines and Routings, Adding Text, Checking Design Rules, Making Gerber and Drill Files, Fabrication Process and Methodology, Design Rule Checking, Exporting Drill and Gerber Files.