

#### National Institute of Electronics & Information Technology Gorakhpur – Extension Centre Lucknow

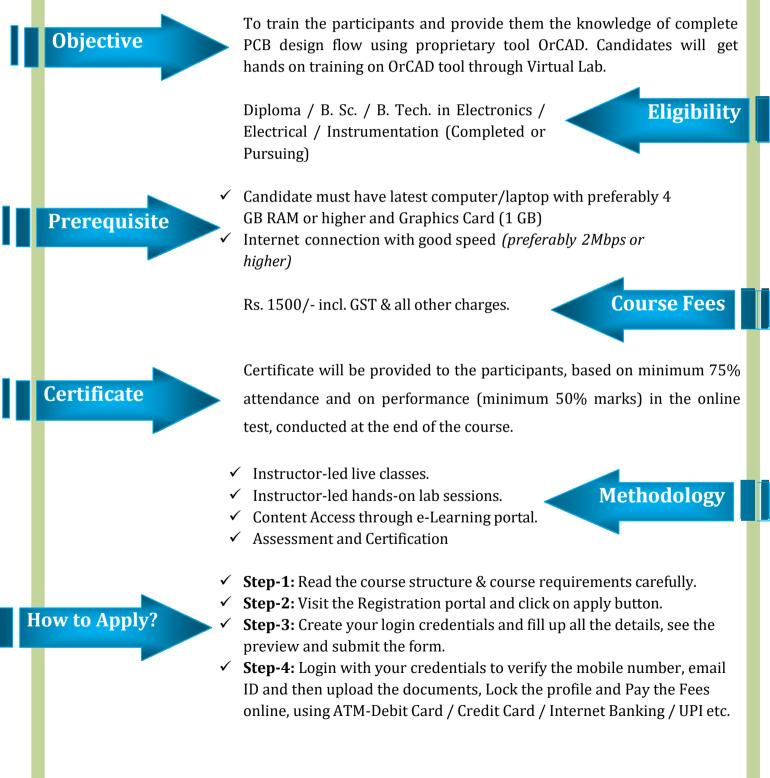
(Under Ministry of Electronics and Information Technology, Govt. of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 https://www.nielit.gov.in/gorakhpur/



# PCB Design using OrCAD

## Course in PCB design using OrCAD 2 Weeks Online Course

Duration: - 2 Weeks. (3 Hrs. per day)





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## **Course Content**

Day	Topic	Day	Торіс	
Day #01	<ul> <li>Introduction to Printed Circuit Board (PCB)</li> <li>PCB Fabrication Process</li> </ul>	Day #02	<ul> <li>Design flow with OrCAD</li> <li>Creation of a project</li> <li>Accessing the components</li> <li>Implementation of Schematic</li> </ul>	
Day #03	<ul> <li>Simulation of Circuit using Pspice Simulation</li> <li>Run time settings</li> </ul>	Day #04	<ul> <li>Study of datasheet for packaging information</li> <li>Adding footprints to the components</li> <li>Creating the netlist</li> <li>Placing and moving the components as per design sequence</li> <li>Routing the components</li> <li>Netlist</li> </ul>	
Day #05	<ul> <li>Importing the components on ORCAD PCB Editor</li> <li>Importing, placing &amp; routing</li> </ul>	Day #06	<ul> <li>Generating the Gerber files/Manufacturing files</li> <li>Generating the Bill of Material (BOM)</li> </ul>	
Day #07	<ul> <li>Assignment-1: PCB Design flow of Clipper Circuit</li> <li>Assignment-2: PCB Design flow of 2 stage RC Circuit</li> <li>PCB Yield</li> <li>PCB Class and type</li> </ul>			
Day #08	<ul> <li>Assignment-3: PCB Design flow of Voltage multiplier circuit.</li> <li>Assignment-4: PCB Design flow of Zener regulator circuit.</li> </ul>			
Day #09	<ul> <li>Assignment-5: PCB Design flow of BJT as switch Circuit.</li> <li>Assignment-6: PCB Design flow of OPAMP based Oscillator circuit.</li> </ul>			
Day #10				

## **Course Coordinator**

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