

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

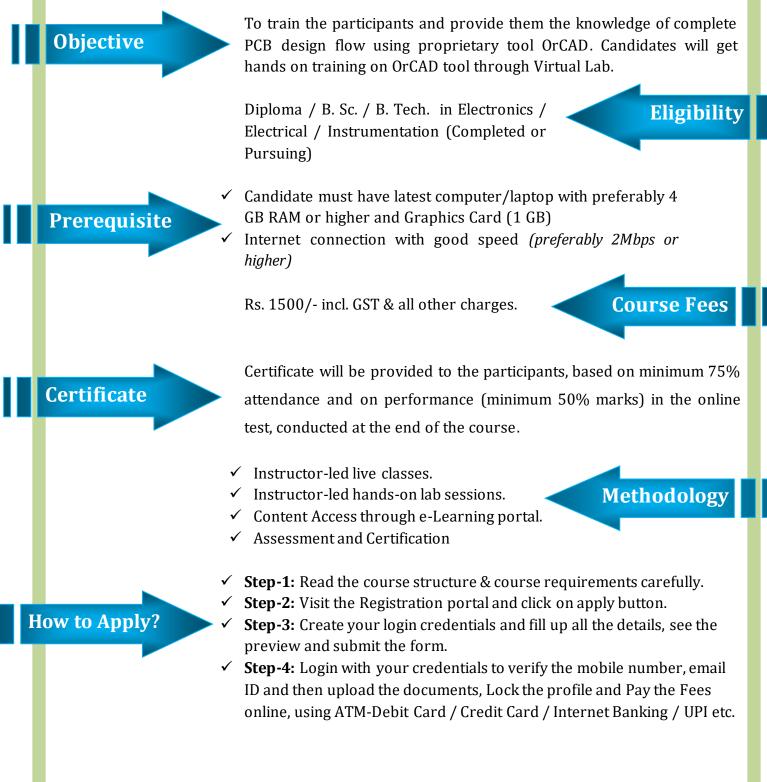
(Under Ministry of Electronics and Information Technology, Govt. of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 http://www.nielit.gov.in/gorakhpur/



PCB Design using OrCAD

Course in PCB design using OrCAD 2 Weeks Online Course

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





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Course Content

Day	Торіс	Day	Торіс
Day #01	 Introduction to Printed Circuit Board (PCB) PCB Fabrication Process Design flow with OrCAD Creation of a project Accessing the components Implementation of Schematic Simulation of Circuit using Pspice Simulation Run time settings 	Day #02	 Study of datasheet for packaging information Adding footprints to the components Creating the netlist Importing the components on ORCAD PCB Editor Placing and moving the components as per design sequence Routing the components
Day #03	 Generating the Gerber files /manufacturing files and documentation for PCB fabrication Generation of Bill of Material (BOM) 	Day #04	 Creation of your own THT symbol Creation of footprint using pad stack editor for THT
Day #05	 Creation of your own SMD symbol Creation of footprint using pad stack editor for SMD 	Day #06	 Assignment 1: Complete Design flow of two stage RC circuit on OrCAD Tool Assignment 2: Complete Design flow of Diode Clipper circuit on OrCAD Tool
Day #07	 Assignment 3: Complete Design flow of BJT Q2N2222 as switch on OrCAD Tool Assignment 4: Complete Design flow of Wein bridge oscillator circuit using IC 741 OPAMP on OrCAD Tool 		
Day #08			
Day #09	• Assignment 6: Complete Design flow of Low cost power supply (DC-DC) using 1N4734A on OrCAD Tool		
Day #10	 Assignment 7: Complete Design flow of low cost programmable power supply(AC-DC) using IC LM317 and IC 7805C on OrCAD Tool 		

Course Coordinator

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