

# National Institute of Electronics and Information Technology Gorakhpur

**Name of Group:** Electronics

**Name of Course:** PCB Designing using OrCAD

**Objective:**

- To train the students with the knowledge of PCB design and fabrication processes.
- To make familiar with PCB design and various processes involved.
- To provide in-depth core knowledge in design and fabrication of Printed Circuit Boards.
- To provide the knowledge in PCB fabrication process and factors affecting PCB performance

**Duration:** 4 Weeks / 6 Weeks

**Eligibility:** Diploma/B.Sc. /B.Tech. in Electronics/Electrical/Instrumentation

**Course Fees (Proposed):** Rs. 1000/- per week (+GST)

**Registration Process:** Candidates have to apply in prescribed application form. The forms can be collected from NIELIT Gorakhpur centre or can be downloaded from the NIELIT Gorakhpur website. The duly filled form along with the course fees has to be submitted at NIELIT Gorakhpur centre. The Fees deposited is Non-Refundable.

**Course Content:**

Modules:	Duration	Contents
Module 1	4 Week	Introduction to PCBs, PCB design rules for various applications and use of ORCAD software for design
Module 2	2 Week	PCB Manufacturing Techniques, Film Master generation methods, Plating and Etching Techniques, punching, drilling, milling. Study Soldering Techniques, Study of soldering defect and rectification. Based on theory-Practical and Assignment in Design, Manufacturing and Assembly

- \* There will be 3 Hours Session per day.
- \* These sessions will include Theory Classes, Demo and Practical.

**Mode of Payment:** Fees can be paid either by swiping debit/credit card or by challan.

For any queries and more details please contact  
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