Electro4u

Advanced PCB Designing 2026 with Industry-Ready Skills : Live Bootcamp

Category: **µC - µP** Level: **All Levels** Language: **Hindi** Duration: **50 Hours, 3 Months**

Self-paced: **Rs. 499**

What makes this curriculum different

- Beginner to Industry-Level Learning: Start with zero knowledge and gradually advance to professional PCB design.
- Practical, Real-World Projects: Learn through actual circuit design examples rather than just theory.
- Industry-Oriented Approach: Understand how PCB designs are developed and implemented in real industries.
- Step-by-Step Guidance: Every topic is explained in a simple and structured manner.
- Complete PCB Development Workflow: Learn schematic design, component selection, PCB layout, routing, ERC/DRC, BOM and Gerber generation.
- Self-Paced Learning: Access recorded sessions anytime and learn at your convenience.
- Design Skills for Real Applications: Gain the confidence to design PCBs for practical electronic products.
- Our Goal: Not just to teach you how to design a PCB, but to help you understand how professional hardware engineers develop a PCB from concept to manufacturing.

Curriculum (30 modules)

01	PCB Day 00 : Course Outline	Lesson
02	PCB DAY 01 : PCB Design Workflow	Lesson
03	PCB Day 02 : KiCad Project Setup	Lesson
04	PCB Day 03: Schematic Capture rule	Lesson
05	PCB Day 04: Electrical Rule Check (ERC)	Lesson
06	PCB Day 05: Symbol Editor	Lesson
07	PCB Day 06 : Footprint Assignment	Lesson
08	PCB Day 07: Footprint Creation	Lesson
09	PCB Day 08 : PCB Layout Basics	Lesson
10	PCB Day 09 : PCB Routing	Lesson

11	PCB Day 10 : Design Rule Check (DRC)	Lesson
12	PCB DAY 11 : BOM Generation	Lesson
13	PCB day 12 : Gerber File Generation	Lesson
14	PCB Day 13 - Project 1: Project-Flash Light PCB Design	Lesson
15	PCB Day 14 - Project 02: LED Button Circuit PCB Design	Lesson
16	PCB Day 15 - Project 03 : IR Sensor Module (Schematic Design) Part 01	Lesson
17	PCB Day 16 : Project 03 : IR Sensor Module (PCB Layout) -Part 02	Lesson
18	PCB Day 17 - STM32 Microcontroller Project Explained | Project Part 1	Lesson
19	PCB Day 18 - STM32 Communication Protocols Explained (UART, SPI, I2C) | Project Part 2	Lesson
20	PCB Day 19 - STM32 GPIO Pin Assignment Connect Sensors & Peripherals | Project Part 3	Lesson
21	PCB Day 20 - STM32 STM32 Boot & Reset Circuit | Project Part 4	Lesson
22	PCB Day 21 - STM32 SD Card + DHT11 Interface | Project Part 5	Lesson
23	PCB Day 22 - STM32 OLED, RS485 & Buzzer Circuit | Project Part 6	Lesson
24	PCB Day 23 - STM32 Multiplexer Interface | Project Part 7	Lesson
25	PCB Day 24 - STM32 LAN Interface Project Project Part 8	Lesson
26	PCB Day 25 - STM32 EEPROM Interface | Project Part 9	Lesson
27	PCB Day 26 - STM32 Footprint Assignment & Creation (Part 1) | Project Part 10	Lesson
28	PCB Day 27 – STM32 Sensor Module Footprint Creation (Part 2) | Project Part 11	Lesson
29	PCB Day 28 – STM32 Project Footprint Assignment And Creation (Part 3) | Project Part 12	Lesson
30	PCB Day 29 – STM32 Project PCB Layout Section | Project Part 13	Lesson