

# GradTech

## Full stack KiCAD



Asia's First EdTech  
Platform for Core  
Engineers

### Foundational Track

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#### Module 1: Introduction to course

- Introduction to course
- What is PCB
- KiCAD and its application
- Glimps of KiCAD

#### Module 2: Schematic Design

- Basics of Schematic editor in KiCAD
- Schematic editor Schematic of 5V power circuit
- How can we add symbols in the sheet
- Atmega328 microcontroller and communication protocols & microcontroller
- Schematic of USB to UART
- Schematic of Microcontroller circuit
- Annotation & ERC check

#### Module 3: PCB layout

- Basics of PCB Layout
- Component placement of Power circuit
- On which layer we can place components
- Microcontroller and USB section
- Silkscreen Layer, Using Freerouting
- Routing, Copper pour, DRC & Gerber viewer

#### Module 4: Soldering and Testing

- Tools required
- Soldering and Testing of Power circuit
- Final board
- Bootloader Part 1
- Arduino IDE
- Connect Digital humidity and temperature sensor(DHT22) to the board
- I2C communication (OLED Display)
- Connecting GPS module

## Module 5: Manufacturing files

- Bill of Materials - BoM
- Components Placement List - CPL
- Gerber Files
- Drill Files
- PPT
- Analysis

## Module 6: Making your own library

- Making our own Schematic Symbol
- Making our own Footpring Library

## Module 7: Capstone project

Build a data science project on your own by applying the learning from the bootcamps. Learn planning the project and implementing it successfully. Present your project to a team of evaluators from the industry and get valuable feedback. Add the project to you

**Grad Tech**

## Ongoing real industry project discussion with industry experts

- Project discussion with expert
- Industry expectations from freshers
- Required skills as per industry need
- Networking and some insights
- Growth and development
- Expectations and reality

## Interview preparation

- Aptitude and English
- Corporate ethics and etiquette
- Formal mail practice
- Group discussion
- How to handle interview questions
- Salary negotiation skills
- LinkedIn networking
- Mock interviews

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