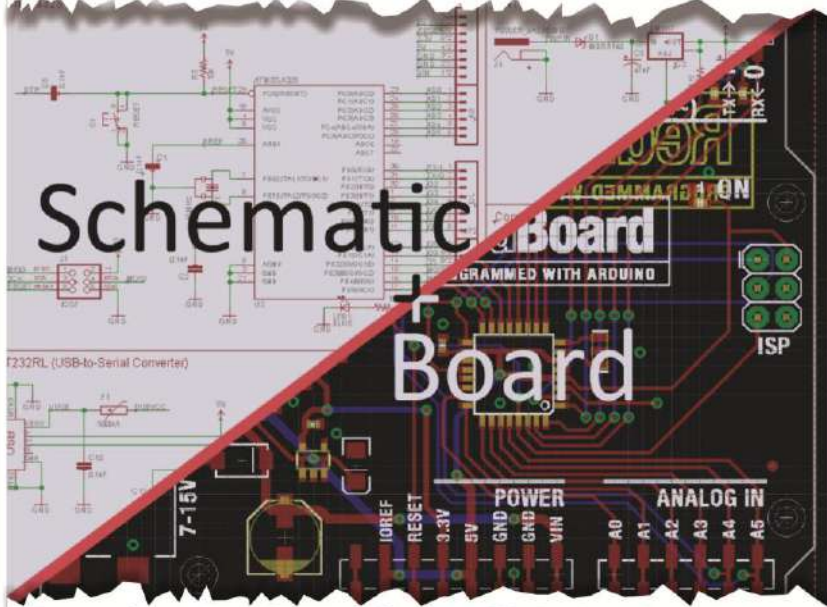


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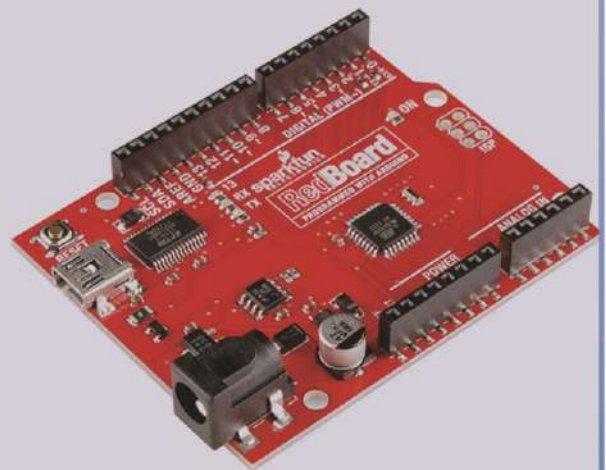
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Course Content

Session : 1 Introduction

- Course introduction
- What is electronics?
- Why it is important?
- What is electric current & voltage?
- Introduction to electronic components

Session : 2 Circuit Making and Testing

- What is breadboard how it works?
- Making power supply circuit on breadboard
- Making 555 IC circuit on breadboard
- Making infrared circuit on breadboard
- Testing and troubleshooting

Session : 3 PCB Designing on Software

- Introduction to PCB technologies
- Types of PCB's used in industries
- Setup and familiarization with software
- Schematic drawing
- Board layout making

Session : 4 PCB Fabrication Hardware

- How to set size & take a print
- What is etching process?
- How to drill in pcb?
- Tinning, component placing, soldering
- Testing and troubleshooting

Session : 5 Microcontroller Introduction

- What is a microcontroller?
- Introduction to compiler and IDE
- Introduction to embedded C
- Application of embedded system
- How to burn program in microcontroller?

Session : 6 SMD Design

- Introduction to SMD components
- Design and Fabrication

Note : 2 Days extra doubt clearing Session
Advance Project Demonstration