

**SLOG SOLUTIONS PRIVATE LIMITED**  
**TECHNOLOGY: PCB AND CIRCUIT**  
**DESIGNING**  
**DURATION: MODULE 1 (4 WEEKS)**

**MODULE 1:**

**Introduction to circuit design**

- Need of circuit designing
- Introduction to basic components like Resistors, Capacitors, Inductors etc.
- How to select components
- Basic circuit designing process
- Introduction to PCB designing
- Types of PCB's
- Machines used for designing
- The designing process

**EXPRESS SCHEMATIC (SCH)**

- Beginning a new schematic
- Placing items in the schematic
- Placing symbols and symbols
- Labelling components
- Editing the schematic
- Creating new components
- Working with sheets and ports
- Checking the schematic for errors

**EXPRESS PCB**

- Beginning a new layout
- Placing items in the layout
- Editing the layout

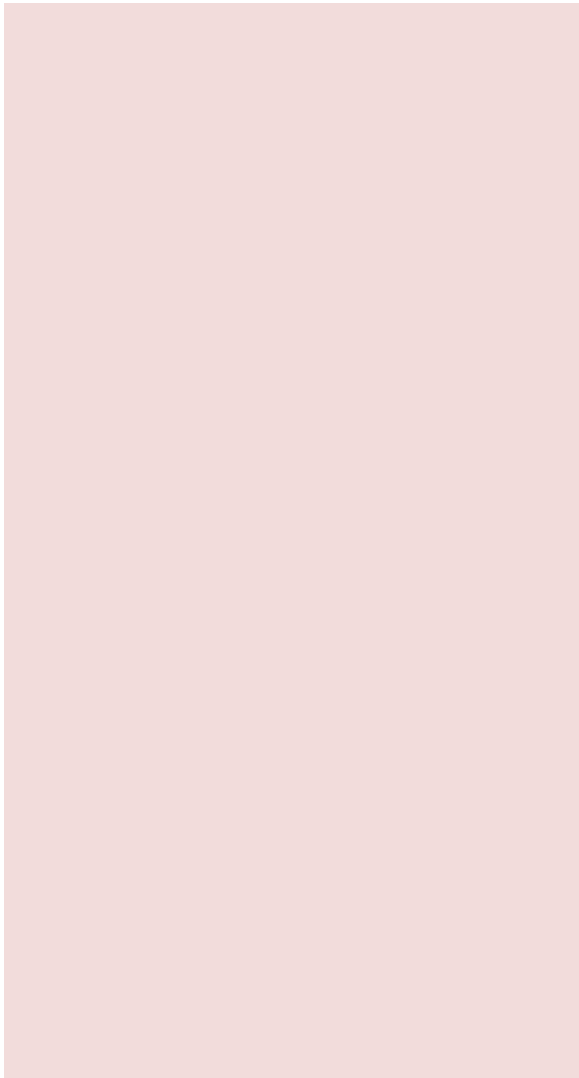
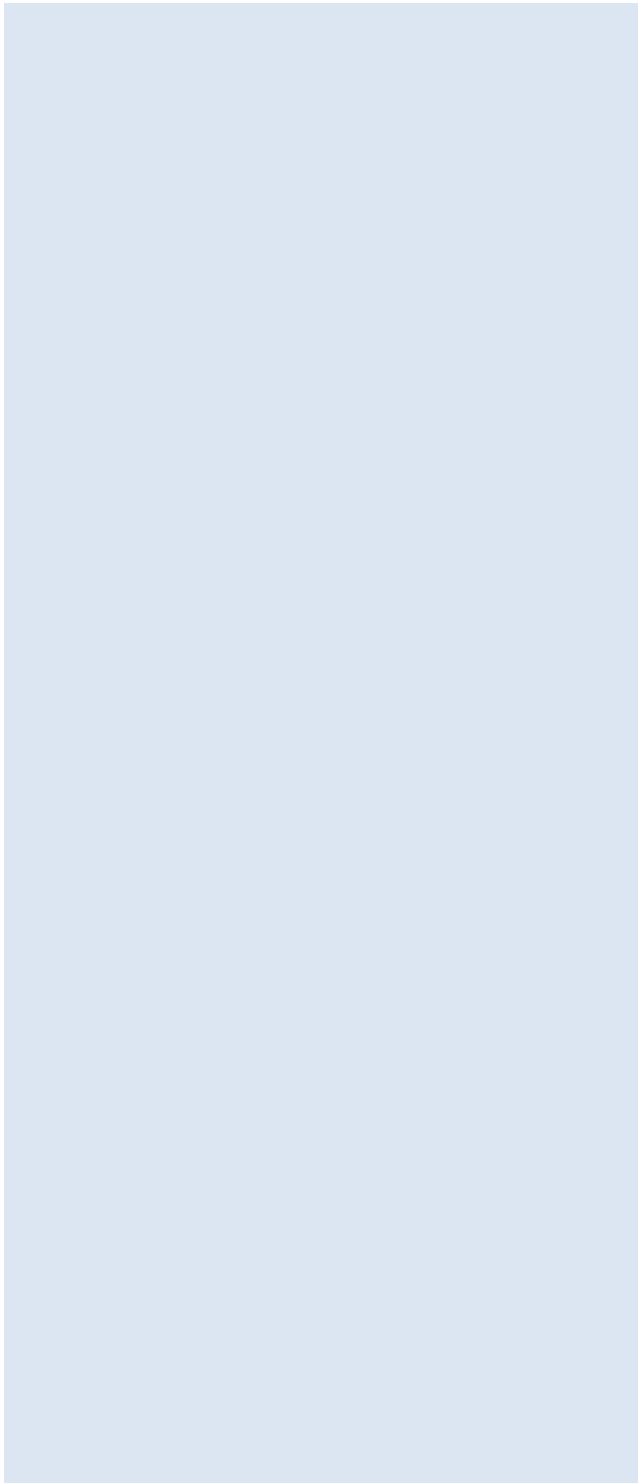
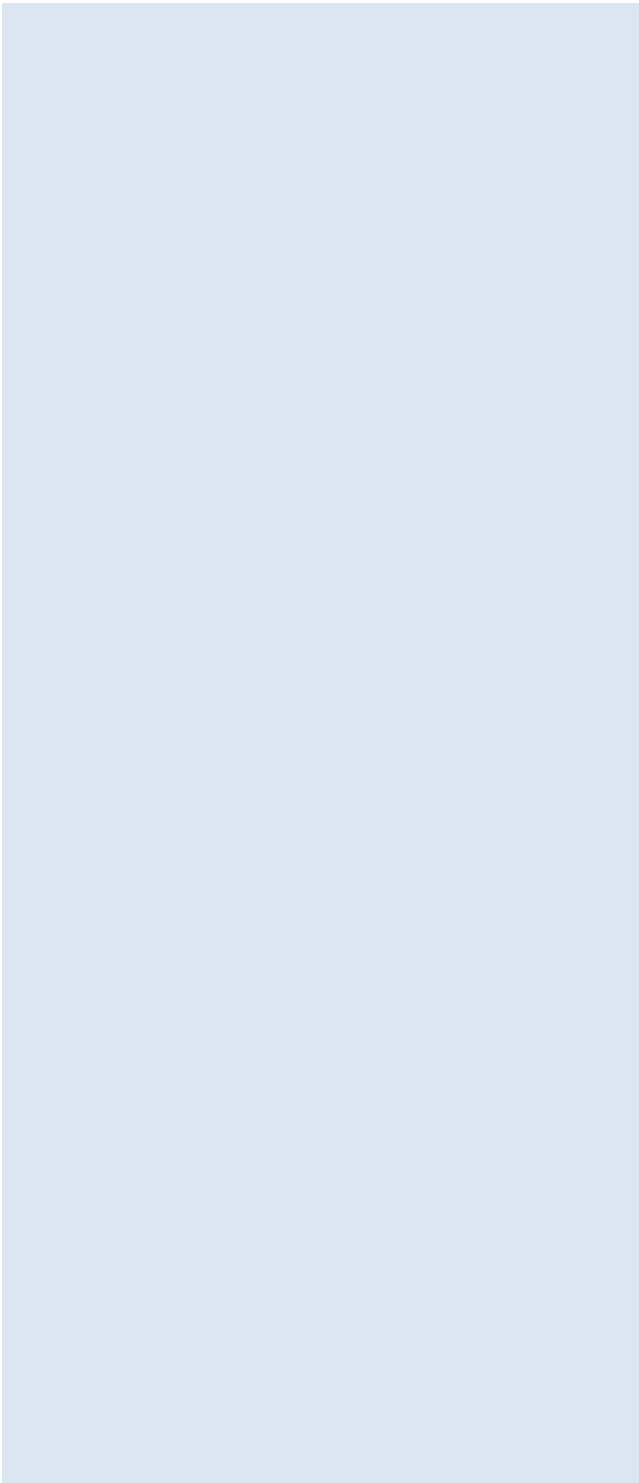
- Placing power and ground planes
- Changing the board's perimeter
- Creating new components
- Linking the schematic and PCB

**PCB PRINTING AND ETCHING**

- Introduction to printing process
- Placing of circuit on copper clad
- Etching process for final PCB

**DRILLING AND SOLDERING**

- Drilling of designed PCB
- Soldering process of components
- Testing and troubleshooting



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