

EE-100 Engineering Laboratory

Module1: PCB

Dr. –Ing. Ahmad Kamal Nasir

[Office Hours]

Tuesday (1200-1300)

Thursday (1200-1300)

Room 9-345A (EE Dept. Right Wing)

Module 1

WEEK 4

Schematic Drawing

Layout Drawing

Soldering Technique

- Soldering Iron and Wire should be at 45 with respect to PCB
- Pre-heat the component terminal with soldering Iron for ~2Sec
- Sandwich the terminal to be soldered between soldering wire and rod.
- Lift the soldering wire and Keep the Soldering rod in contact for ~3-4Sec so that the molten solder is uniformly melted around the terminal.

Component List

- LED
- Relay
- Resistor
- Diode
- Terminal Block – 12
- Etched PCB
- Push Switch

Deliverable

- Solder the components on the PCB.
- Evaluation Rubrics
 - Working PCB.
 - Correct orientation of components.
 - Good soldering quality.
 - Team Work
 - Completion within Lab Time