

# EE-100 Engineering Laboratory

## **Module1: PCB**

Dr. –Ing. Ahmad Kamal Nasir

**[Office Hours]**

Tuesday (1000-1100)

Thursday (1100-1100)

Room 9-245A (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