

AVR Embedded Systems Workshop

- 1. PCB Designing Introduction**
 - a. Copper Clad, layers, vias etc
 - b. Manufacturing process
 - c. Soldering (through hole, SMD)
- 2. Embedded System Design**
 - a. Arduino on a breadboard
 - b. Voltage supplies
 - c. Microcontroller circuitry
- 3. PCB Designing**
 - a. Schematic layout
 - b. Board layout
 - c. Layers
 - d. Uips, scripts
 - e. ERC, DRC
 - f. Gerber generation and manufacturing
- 4. Arduino programming**

Serial and ISP programming

 - a. Blink
 - b. Serial
 - c. LCD
- 5. Embedded C programming**
 - a. Blink
 - b. LCD
 - c. Serial
 - d. A to D