

I Year - II Semester  
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**MECHANICAL WORKSHOP AND IT WORKSHOP**  
**(Common to Civil/EEE/ME/ECE)**

**Engineering Workshop**

Course Objective: To impart hands-on practice on basic engineering trades and skills

**Note: At least two exercises to be done from each trade Trade**

**Carpentry:**

1. T Lap Joint
2. Cross Lap Joint
3. Dovetail Joint
4. Mortise and Tenon Joint

**Fitting:**

1. Vee fit
2. Square fit
3. Half Round fit
4. Dovetail fit

**Black Smithy:**

1. Round rod to square
2. S-Hook
3. Round rod to flat ring
4. Round rod to square headed bolt

**House Wiring:**

1. Parallel / Series connection of three bulbs
2. Stair case wiring
3. Florescent Lamp Fitting
4. Measurement of Earth Resistance

**Tin Smithy:**

1. Taper Tray
2. Square Box without lid
3. Open Scoop
4. Funnel

## **IT Workshop**

### **OBJECTIVES:**

- Understand the basic components and peripherals of a computer.
  - To become familiar in configuring a system.
  - Learn the usage of productivity tools.
  - Get hands on experience in trouble shooting a system?
1. System Assembling, Disassembling and identification of Parts / Peripherals
  2. Operating System Installation-Install Operating Systems like Windows, Linux along with necessary Device Drivers.
  3. MS-Office / Open Office
    - a. Word - Formatting, Page Borders, Reviewing, Equations, symbols.
    - b. Spread Sheet - organize data, usage of formula, graphs, charts.
    - c. Power point - features of power point, guidelines for preparing an effective presentation.
    - d. Access- creation of database, validate data.
  4. Trouble Shooting-Hardware trouble shooting, Software trouble shooting.

### **OUTCOMES:**

- Common understanding of concepts, patterns of decentralization implementation
- Identified opportunities for coordinated policy responses, capacity building and implementation of best practices
- Identified instruments for improved decentralization to the local level
- Identified strategies for overcoming constraints to effective decentralization and sustainable management at different levels

### **Text Books:**

1. Computer Hardware, Installation, Interfacing, Troubleshooting and Maintenance, K.L. James, Eastern Economy Edition.
2. Microsoft Office 2007: Introductory Concepts and Techniques, Windows XP Edition by Gary B. Shelly, Misty E. Vermaat and Thomas J. Cashman (2007, Paperback).3
3. The Complete Computer upgrade and repair book, 3/e, Cheryl A Schmidt, Dream tech.
4. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dream tech.