

I Year I Semester
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MECHANICAL WORKSHOP AND IT WORKSHOP

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, Dreamtech.
4. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dreamtech.