

4133 - ELECTRONIC WORKSHOP & DRAWING									
Teaching Schedule Per Week			Progressive Assessment	Examination Schedule (Marks)					
Lectures	Practical	Credits		Theory			Practical Ex.		Total
-	4	4	-	50	-	-	50	-	100
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
Nil		EXN		-	-	-	50	-	50

COURSE CONTENTS

Hrs Mks

1. ELECTRONIC WORKSHOP

- To study and test various types of resistors and potentiometers. Standard values, sizes, typical ratings and applications.
- To study and test various types of capacitors Fixed and variable, ceramic, mica, paper, electrolytic, polyester, tantalum, etc., standard values, typical ratings, and applications.
- To study and test types of inductors Sizes, practical ratings, decade inductance box.
- To study various types of standard diodes Packages, important ratings, testing using multimeter.
- To study various standard transistors Packages, important rating, testing using multimeter, identification of various leads npn and pnp types.
- To study typical IC packages
- Identification of pins and IC testing including digital display devices.
- To solder a simple circuits and be familiar with various precautions to be taken during soldering.
- To study various types of transformers Their ratings, sizes and testing.
- To design and prepare a PCB for a simple circuit.
- To study various types of relays their ratings and testing.
- Acquaintance with various components like wires, cables, connectors, mounting accessories, tagblocks, heatsinks and their specifications.
- Acquaintance with data sheets Of various components like diode, transistor, IC and interpretation of important specifications.

2. DRAWING

- Neat symbols of Various types of R, C, L, diode, transistor, IC.
- Various types of wires, cables, earthing, cell. Battery, fuse, transformer. Generators, Power supplies, Frequency Multipliers, Microphones, Loudspeakers, lamp meters.
- Neat drawings of Basic circuits like biasing circuit, various amplifiers and oscillators. Circuits like clipper, clamper, Integrator, differentiator, halfwave rectifier, full wave rectifier (single and 3 phase).
- Neat symbols of various logic gates and basic circuits using them

Total

