

## Detailed Teaching Plan

**Name of Faculty** :Abhishek Awasthi  
**Course Name** :Electronic Workshop Practice  
**Course Code** :2000194(028)  
**Branch and Semester** :CSE-Semester-1  
**Session** :July December 2024

<b>Lecture No.</b>	<b>Unit No.</b>	<b>Topic to be covered</b>
1	1	Introduction to Basic Concepts of Electronic workshop Safety Practices and Fire Fighting Measures
2	2	Basic components and tools used in electronics- Identification and applications AC/DC Supply voltage and current Calculating the value of resistors using color coding method
3	2	Capacitors- Various types of capacitors Specification and applications in circuits Measurement of value of capacitance using multimeter
4	2	Inductors, Transformers- Step-Up and Step-Down transformers
5	3	Introduction to the concept of Active Devices-Diodes and Transistors
6	3	Integrated Circuits- IC Packaging Analog and digital ICs Series Display Units- LEDs, LCDs, 7-Segment LED, Alphanumeric Displays
7	4	CRO-Block Diagram and explanation Function Generator- Block diagram and its connection
8	4	Connecting CRO and function generator to view basic waveforms, changing their frequency of operation and studying the features of front panel of CRO
9	5	Solder Materials- their properties Solder Wires, Flux and Flux Materials
10	5	Practice Soldering on the PCBs using the soldering tools