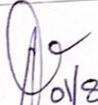


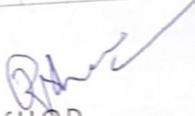
Govt. Polytechnic Hamirpur (H.P.)
Practical Planning & Coverage

Branch : Electrical Engg. Semester: 3rd
 Subject : ELECTRICAL CIRCUITS LAB Session: Aug-Dec-2025
 Teacher: Archit Bharti Lab : EMMI LAB

Pract. No.	Description of Practical	Reference for Procedure/ Writeup	Likely Dates	Actual Dates	Signature
1.	Use dual trace oscilloscope to determine A.C voltage and current response in given R, L, C circuit.	R1 R2 R3	11/8/2025 & 22/8/2025		
2.	Use voltmeter, ammeter, wattmeter to determine active, reactive and apparent power consumed in given R-L series circuit. Draw phasor diagram.	R1 R2 R3	18/8/2025 & 29/8/2025		
3.	Use voltmeter, ammeter to determine active, reactive and apparent power consumed in given R-C series circuit. Draw phasor diagram.	R1 R2 R3	18/8/2025 & 29/8/2025		
4.	Use voltmeter, ammeter, wattmeter to determine active, reactive and apparent power consumed in given R-L-C series circuit. Draw phasor diagram..	R1 R2 R3	25/8/2025 & 05/09/2025		
5.	Use variable frequency supply to create resonance in given series R-L-C circuit or by using variable inductor or variable capacitor	R1 R2 R3	25/8/2025 & 05/09/2025		
6.	Use voltmeter, ammeter, and wattmeter to determine current, p.f., active, reactive and apparent power in R-C parallel A.C. circuit.	R1 R2 R3	8/9/2025 & 19/09/2025		
7.	Use voltmeter, ammeter, wattmeter, p.f meter to determine current, p.f., active, reactive and apparent power for given R-L-C parallel circuit with series connection of resistor and inductor in parallel with capacitor.	R1 R2 R3	8/9/2025 & 19/09/2025		
8	Use variable frequency supply create resonance in given parallel R-L-C circuit or by using variable inductor or capacitor.	R1 R2 R3	15/9/2025 & 26/09/2025		
9	Use voltmeter, ammeter, wattmeter, p.f meter to determine line and phase quantities of voltage and current for balanced three phase star and delta connected load and calculate active, reactive, and apparent power. Draw phasor diagram.	R1 R2 R3	15/9/2025 & 26/09/2025		

10	Use voltmeter, ammeter, wattmeter, p.f meter to determine line and phase quantities of voltage and current for unbalanced three phase star and delta connected load and calculate active, reactive, and apparent power. Draw phasor diagram.	R1 R2 R3	6/10/2025 & 10/10/202 5		
11	Use voltmeter, ammeter to determine current through the given branch of a electric network by applying mesh analysis.	R1 R2 R3	27/10/202 5 & 31/10/202 5		
12	Use voltmeter, ammeter to determine current through the given branch of a electric network by applying node analysis.	R1 R2 R3 R4	10/11/202 5 & 14/11/202 5		


 Signature of Teacher with Date 10/8/2025


 Signature of H.O.D.