

Subject: Electrical & Electronic Measurement- 1
Classes start on 14/01/2024

Subject Code: 26752

Week	Theory		Practical	
	Main Topics	Obj. Ref. (T)	Practical/ Experimental Activities	Obj. Ref. (P)
1	1. Recognize the basic concept of measurements.	1.1-1.9	1. Find various types of measuring instruments.	1.1-1.3
2	2. Interpret the classification of measuring instrument. Quiz-1	2.1-2.6.	2. Study the operation of indicating, integrating, recording and digital instruments.	2.1-2.4
3	3. Understand the principle of operation of indicating instruments.	3.1-3.8	3. Observe the parts of different types of measuring instruments	3.1-3.4
4	4. Perceive the constructional features of measuring instruments.	4.1-4.6	4. Select the correct type of ammeter and voltmeter.	4.1-4.7
5	5. Interpret the principle of operation of moving iron instruments. CT-1	5.1-5.7	5. Study the wattmeter	5.1-5.5
6	6. Conceive the principle of operation of moving coil instruments.	6.1-6.7	6. Measure the single-phase power by ammeter, voltmeter and wattmeter	6.1-6.8
7	7. Understand the principle of operation of electrostatic voltmeter.	7.1-7.5	7. Measure the three-phase power by two wattmeter method	7.1-7.8
8	8. Recognize the operation of dynamometer type wattmeter.	8.1-8.4	8. Measure the three-phase power by one wattmeter method.	8.1-8.7
9	9. Conceive the operation of induction type wattmeter. Quiz-2	9.1-9.4	9. Study the different parts of an energy meter.	9.1-9.5
10	10. Interpret the concept of measurement of single-phase power.	10.1-10.5	10. Measure the energy of a single-phase circuit by energy meter.	10.1-10.4
11	11. Apply the principle of power measurement in three phase circuit.	11.1-11.7	11. Measure the energy of a three-phase circuit by a three-phase energy meter.	11.1-11.4
12	12. Recognize the operation of energy meter. CT-2	12.1-10.	12. Test an energy meter for finding its error.	12.1-12.6
13	13. Perceive the concept of testing of energy meter.	13.1-13.5	13. Measure the energy of a single-phase circuit by single phase digital energy meter	13.1-13.3
14	14. Conceive the concept of digital instrument and digital display.	14.1-14.8	14. Measure the energy of a three-phase circuit by single phase digital energy meter	14.1-14.3
15	15. Interpret the concept of digital voltmeter and digital energy meter.	15.1-15.8	Review	1-14
16	Review		Review	1-14

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