Electrical Engineering

Department

Lesson plan

Name of Faculty	Sh. Parveen Dahiya & Sh. Jai Bhagwan			
Discipline	Electrical Engineering			
Semester	3rd			
Subject	EMI			
Lesson Plan Duration	04.08.2025 to 17.11.2025 (17Week)			
Work load [Theory + Practical] Per Week	[04T+02Pr]			

Week	Day	Theory Topic/ Assignment/ Test	No.	Practical
	1	Introduction		
	2	Unit-1 Concept of measurement and instruments	1	Use of analog and digital multimeter.
1 st	3	Concept of measurement and instruments	1	
	4	Sources of error in instruments Types of electrical	1	
		measuring instruments-Indicating, integrating		
		and recording		
	1	Essential of indicating instruments		
	2	Revision of above	2	Measurement of pressure
2 nd	3	Unit-2 introduction of moving coil and moving iron		by using LVDT.
		instruments		
	4	Difference between ammeters and voltmeters		
	1	Construction and working of moving iron and moving		
3 rd		coil instruments	3	Revision/Checking of Files
	2	Merits and demerits of above		
	3	Sources of error in above instruments		
	4			
		Application of moving iron and moving coil instruments		
	1	Unit-3 wattmeter's construction	4	To measure of earth resistance by using of
4 th	2	Working and principle of wattmeter		
	3	Merits and demerits of dynamometer wattmeter		earth tester.
	4	Digital wattmeter		
	1	Unit-4 Energymeter- Introduction		
	2	Construction and principle of EM	5	To measure power, power
5 th	3	Merits and demerits of EM.		factor in a single phase
	4	Errors in EM,MDI		circuit, wattmeter and
				power factor meter and to
				verify results.
Cab	1	Revision/Problem solution		
6 th	2	Digital Energy Meter its construction and diagram.	6	Revision.
	3	Unit -5 Miscellaneous Measuring Instruments		
	4	Meggar -construction working and principle.		
	1	Earth tester analog and digital ,Single phase power		
7 th		factor meter	_	
	2	synchroscope	7	viva-voice
	3	Revision/Problem solution	_	
	4	Phase sequence indicator Clamp on meter		
	1	Class test.	8	Measurement of
	2	Instrument transformers-CT and PT.		VOLTAGE and draw

8 th	3	Unit-6 Electronic Instruments		waveshape of by using
	4	Introduction of EI. CRO Block Diagram		CRO.
9th	1	Working principle of CRO		Revision/Checking of Files
	2	Application of CRO	9	
	3	Digital multi meter only block diagram and its		
		application.		
	4	Class Test/Assignment		
	1	Unit 7 introduction of LCR Meters.		Measurement of power in a 3 phase circuit by using CT AND PT.
10 th	2	Applications of LCR meter.	10	
	3	Previous year question paper discussed of above		
		chapters.		
	4	Surprise class test.		
	1	Class Test/Assignment		Calibration of single phase energy meters
	2	Unit-8 power measurements in 3 phase circuit		
11 th		introduction	11	
	3	Two wattmeter method		
	4	Three wattmeter method.		
12 th	1	Class Test/Assignment		Use of LCR meter.
	2	Revision/Problem solution	12	
	3	Unit9: introduction to transducers.		
	4	Types of transducers.		
13 th	1	Pressure measurement ,Flow measurement		Measurement of temperature by using thermistor.
	2	Level measurement.	13	
	3	Displacement measurement.		
	4	Evaluation of home assignments.		
14 th	1	Unit -10 Measurement of temperature		REVISION/VIVA.
	2	Types of thermometer.	14	
	3	Thermocouple and resistance temperature.		
	4	Thermal imager etc.		
	2	Revision/Problem solution		
	3	Revision/Problem solution		
	4	Previous year HSBTE Question Paper Solution		
		1		