Govt.Polytechnic Panchkula

Sector-26

Electrical Engineering Department

Lesson plan

		Lesson plan				
Name of F			Suchet Kumari			
Discipline		Electrical Engineering				
Semester			4th			
Subject		EMII				
Lesson Pla	ion	March 2022				
Work load	d [Theory	<pre>/ + Practical] Per Week</pre>	[04T+02Pr]			
Week	Day	Theory Topic/ Assignment/ Te	st	No.	Practical	
1 st	1	Introduction				
	2	Unit-1 Concept of measurement and instruments		1	Use of analog and digital multimeter.	
	3	Concept of measurement and instruments				
	4	Sources of error in instruments Types of electrical measuring instruments-Indicating, integrating and recording				
2 nd	1	Essential of indicating instruments			Measurement of pressure	
	2	Revision of above				
	3	Unit-2 introduction of moving coil and moving iron instruments		2	by using LVDT.	
	4	Difference between ammeters and voltmete	rs			
3 rd	1	Construction and working of moving iron a			Revision/Checking of Files	
	-	coil instruments	ind moving	3		
	2	Merits and demerits of above			on the second sec	
	3	Sources of error in above instruments				
	4					
		Application of moving iron and moving coi	l instruments			
4 th	1	Unit-3 wattmeter's construction			To measure of earth	
	2	Working and principle of wattmeter		4	resistance by using of	
	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 factor in a single phase	
5 th	3	Merits and demerits of EM.				
	4	Errors in EM,MDI			circuit , wattmeter and power factor meter and to verify results.	
6 th	1	Revision/Problem solution			Revision.	
	2	Digital Energy Meter its construction and o	liagram.	6		
	3	Unit -5 Miscellaneous Measuring Instrume	nts			
	4	Meggar -construction working and princip	le.			
7 th	1	Earth tester analog and digital ,Single phas	power			
		factor meter		7	viva-voice	
	2	synchroscope				
	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.
9 th	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		
10 th	1	Unit 7 introduction of LCR Meters.		Measurement of power in a 3 phase circuit by using CT AND PT.
	2	Applications of LCR meter.	10	
ſ	3	Previous year question paper discussed of above		
-		chapters.		
	4	Surprise class test.		
11 th	1	Class Test/Assignment		Calibration of single phase energy meters
	2	Unit-8 power measurements in 3 phase circuit		
		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.		
	1	Pressure measurement, Flow measurement		Measurement of temperature by using thermistor.
1.01	2	Level measurement.	13	
13 th	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.	14	
	4	Thermal imager etc.		
	2	Revision/Problem solution		
	3	Revision/Problem solution		
	4	Previous year HSBTE Question Paper Solution		