Disci pline	SEMESTER 4 th	NAME OF THE TEACHING FACULTY- SIBANI PANDA, LECT(ELECT.)		
lectrical				
ngg				
SUB- EM&I	No Of Days Per Week	SEMESTER FROM 14.02.2023 TO 25.05.2023		
Line	Class	NO OF WEEK - 15 WEEKS		
	Allotted- 4P	THEORY	STATUS	
VEEK	CLASS	INCOM	completed	
-		1. MEASURING INSTRUMENTS		
	1 st day	1.1 Define Accuracy, precision, Errors, Resolutions Sensitivity and		
15	2 nd day	tolerance.	e gran de part	
week	3 rd day	in the factor instruments		
	4 th day	1.2 Classification of measuring instrumenter 1.3 Explain Deflecting, controlling and damping arrangements in		
	5 TH day	indicating type of instruments.		
		Indiodan's of	completed	
	1 ^{s⊤} day	1.4 Calibration of instruments		
2 nd	2 nd day	2. ANALOG AMMETERS AND VOLTMETERS		
week	3 rd day	2. ANALOG AMMETERS AND VOLTINE Takes 2.1. Describe Construction, principle of operation, errors, ranges		
TOOR	4 th day	2.1. Describe Construction, principle of operation		
	5 th day	merits and demerits of:		
		2.1.1 Moving iron type instruments.	- Ishaa	
	and the second sec		completed	
	ST	2.1.2 Permanent Magnet Moving coil type instruments.		
3 rd	1 st day	2 1 3 Dynamometer type instruments		
week	2 nd day	2.1.4 Rectifier type instruments		
	3 rd day	2.1		
	4 th day 5 th day			
	5 uay		completed	
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
4 th	1 ^{s⊺} day	2.1.5 Induction type instruments2.2 Extend the range of instruments by use of shunts and		
week	2 nd day	2.2 Extend the range of instruments by deal		
WEEK	3 rd day	Multipliers		
	4 th day	2.3 Numerical		
	5 th day	3. WATTMETERS AND MEASUREMENT OF POWER		
		3.1 Describe Construction of wattmeter		
		3.1 Describe Construction P	completed	
2		the swattmater		
		3.1.1 Principle of working of Dynamometer type wattmeter.		
	ST days	3.1.2 LPF and UPF type		
_th	1 st day	a 4.2 production of torgue and measurements		
5 th	and day	2.2 The Effors in Dynamonic of the		
veek	2 nd day	wattmeter and methods of their		
	3 rd day	correction.		
	,	COllection	and a second second	
	4 th day			
	5 th day			

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6 TH WEEK	1 st day 2 nd day		oompiet	сы.
	2 day	3.3 Induction type watt meters.		
	3 rd day	3.3.1 construction		
	4 th day	3.3.2 phasor diagram and deflecting torque production		
	5 th day	4. ENERGYMETERS AND MEASUREMENT OF ENERGY		
		4.1 Introduction		
		4.2 Single Phase Induction type Energy meters – construction,		
			complete	ρÓ
7 TH WEEK	1 st day			
	2 nd day	working principle		
	3 rd day	Errors in energy meter their compensation & adjustments		
	4 th day	4.3 Testing of Energy Meters		
	5 th day	Numerical related to energy meter		
		Class test upto 4 th chapter	4	0F
	1 st day	5. MEASUREMENT OF SPEED, FREQUENCY AND POWER	complete	d
8 TH WEEK	2 nd day	FACTOR		(and
	3 rd day	5.1 Tachometers, types	3	
	4 th day	working principles		
	5 th day	govt holiday		
-	Judy		complete	7
ATHINEEK	1 st day	Govt holiday	Completer	
9 TH WEEK	2 nd day	Govt holiday 5.2 Principle of operation and construction of Electrical resonance		
	3 rd day	Type frequency meters.		
1	4 th day	Principle of operation and construction of Mechanical recondition		
	5 th day	Type frequency meters.		
	c ,		completed	1
10 TH	1 st day	5.3 Principle of operation and working of Dynamometer type		
WEEK	2 nd day			1.
VVLLIN	3 rd day	6. MEASUREMENT OF RESISTANCE, INDUCTANCE&	1	
	4 th day	CAPACITANCE	Sec. 10.	
	5 th day	(and top CO		
		6.1 Classification of resistance by potentiometer method. 6.11. Measurement of low resistance by wheat Stone bridge		
		6.11. Measurement of low resistance by potentionneter me bridge 6.12. Measurement of medium resistance by wheat Stone bridge		
		method.		
		method. 6.13. Measurement of high resistance by loss of charge method.		
			completed	1.
11 TH	1 st day	6.2 Construction, principle of operations of Megger & Earth tester		11
WEEK	2 nd day	6.2 Construction, principle of operations of megger for insulation resistance and earth resistance measurement		
VVEEN	3 rd day	respectively.		
2 . n. sin	4 th day	Taken CL	malatad	-
	5 th day		completed	
12 TH	1 ^{s⊤} day	Taken CL		
WEEK	2 nd day	6.3 Construction and principles of Multimeter.		
	3 rd day	Analog		-
	4 th day	Digital		
	5 th day	· 특징 · · · · · · · · · · · · · · · · · ·		
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13 TH WEEK	1 st day 2 nd day 3 rd day 4 th day 5 th day	 6.4 Measurement of inductance by Maxewell's Bridge method. 6.5 Measurement of capacitance by Schering Bridge method 7. SENSORS AND TRANSDUCER 7.1. Define Transducer, sensing element or detector element and transduction elements. 7.2. Classify transducer. Give examples of various class of transducer. 	completed
14 TH WEEK	1 ST day 2 nd day 3 rd day 4 th day 5 th day	 7.3. Resistive transducer 7.3.1 Linear and angular motion potentiometer. 7.3.2 Thermistor and Resistance thermometers. 7.3.3 Wire Resistance Strain Gauges 	completed
15 [™] WEEK	1 st day 2 nd day 3 rd day 4 th day 5 th day	 7.4. Inductive Transducer 7.4.1 Principle of linear variable differential Transformer (LVDT) 7.4.2 Uses of LVDT. 7.5. Capacitive Transducer. 7.5.1 General principle of capacitive transducer. 7.5.2 Variable area capacitive transducer. 7.5.3 Change in distance between plate capacitive transducer. 7.6. Piezo electric Transducer and Hall Effect Transducer with their applications. 	completed
16 TH VEEK	1 ST day 2 nd day 3 rd day 4 th day 5 th day	 8. OSCILLOSCOPE 8.1. Principle of operation of Cathode Ray Tube. 8.2. Principle of operation of Oscilloscope (with help of block diagram). 8.3. Measurement of DC Voltage & current. 8.4. Measurement of AC Voltage, current, phase & frequency 	completed

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