1		LESSON PLAN-2021-22 (WINTER-2021)
-	SWAMI	VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR
DISCIPLINE-ETC	Semester-3rd	Name of teaching faculty-ER. PRAKASH BEURA
SUBJECT-EMI	No of days/ per week class	SEM From date- 01/19/2020
	alloted-4	
Week	Class day	Theory Topics Discuss the Static Characteristics
1st	01.10.21	Accuracy, sensitivity, reproducibility & static error of instruments
2110	02.10.21	Dynamic characteristics& speed of instruments.
2ND	05.10.21 06.10.21	Errors of an instrument & explain various types.
	07.10.21	Introduction to Indicator & Display devices & its types
	08.10.21	Basic principle of meter movement, permanent magnetic moving coil movement & its
		advantages & disadvantages.
	09.10.21	Operation of Moving Iron Instrument
3RD	12.10.21 to 20.10.21	DURGA POOJA HOLIDAY
4TH	21.10.21	Basic principle of operation of AC Ammeter and Multi range Ammeter
	22.10.21	Basic principle of operation of DC Voltmeter and its applications
	23.10.21	Basic principle of operation of AC Voltmeter and its application
5TH	26.10.21	Basic principle of Ohm Meter (Series & Shunt type)
	27.10.21	Basic principle of Analog Multimeter, its types & applications
	28.10.21	Operation of Q meter and its essentials
	29.10.21	Principle of operation of Ramp type Digital Voltmeter & applications
	30.10.21	
	50.10.21	Operation of display of 3 1/2, 4 1/2– Digital Multimeter & Resolution and Sensitivity
1ST	02.11.21	Digital Multimaterity types & applications
	2011.01	Basic principle of operation of working of Digital Multimeterits types & applications Basic principle of operation of working of Digital Frequency Meter
	03.11.21	Operation of working of Digital Measurement of Time
	05.11.21 06.11.21	Principle of operation of working of Digital Measurement of Time
	06.11.21	Principle of operation of working of Digital Factionness.
2ND	09.11.21	Principle of operation of working of Automation in Digital Instruments (Polarity
		Indication, Ranging, Zeroing & Fully Automatic)
	10.11.21	Block diagram of LCR meter & its working principle.
	11.11.21	Basic principle of Oscilloscope& its Block Diagram
	12.11.21	
	12.11.21	Basic principle & Block diagram of CRO, Dual Trace Oscilloscope & its specification
	13.11.21	CRO Measurements, Lissajous figures
3RD	16.11.21	Applications of Oscilloscope (Voltage period & frequency measurement)
	17.11.21	Operation of Digital Storage Oscilloscope& High frequency Oscilloscope
	18.11.21	Types of Bridges (DC& Ac Bridges)
	20.11.21	DC Bridges (Measurement of Resistance by Wheatstone's Bridge)
4TH	23.11.21	AC bridges (Measurement of inductance by Maxwell's Bridge & by Hay's Bridge)
	24.11.21	Measurement of capacitance by Schering's Bridge & DeSauty Bridge.
	25.11.21	Measurement of frequency
	26.11.21	DURGA POOJA HOLIDAY
	27.11.21	LCR Meter & its measurements
5TH	30.11.21	Parameter, method of Selecting & advantage of Electrical Transducer & Resistive
3		Transducer
	X	
1ST	01.12.21	Working principle of Strain Gauges, define Strain Gauge (No mathematical Derivation)
	The state of the s	Working principle of Strain Gauges, define Strain Gauge (No mathematical Derivation) Working principle of LVDT
		Working principle of capacitive transducers (pressure)
		Working principle of capacitate transdacers (pressure) Working principle of Load Cell (Pressure Cell)
2ND		Working principle of Temperature Transducer
2.140		RTD
		Optical pyrometer
		hermocouple
	11.12.21 T	hermister
3RD		Vorking principle of Current transducer and KW Transducer.

-	15.12.21	Working principle of Proximity & Light sensors.	
4TH	16.12.21	General aspect & classification of Signal generators	
	17.12.21	Working principle of AF Sine & Square wave generator .	
	18.12.21	Working principle of the Function Generator	<u>. </u>
	21.12.21	Function of basic Wave Analyser& Spectrum Analyser	
	22.12.21	Basic concept of Data Acquisition System (DAS)	

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