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LESSON PLAN, SESSION-WINTER-2023-24 SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

E-ETC ENGG.	SEMISTER- 3RD	NEME OF THE FACULTY-ER. ASHOK KUMAR PRUSTY
EMI	NO OF CLASS ALLOTED/WEEK-4	SEMESTER FROM-01.08.2023 TO 30.11.2023.
WEEK	DATE	TOPICS
1ST	01.08.23	Qualities of Measurement
	02.08.23	Discuss the Static Characteristics
	03.08.23	Accuracy, sensitivity, reproducibility & static error of instruments
2ND	07.08.23	Dynamic characteristics& speed of instruments.
	08.08.23	Errors of an instrument & explain various types.
	09.08.23	Indicating Instruments
	10.08.23	Introduction to Indicator & Display devices & its types
3RD	14.08.23	Basic principle of meter movement, permanent magnetic moving coil movement & its advantages & disadvantages
	16.08.23	Operation of Moving Iron Instrument
	17.08.23	Basic principle of operation of DC Ammeter and Multi range Ammeter
	21.08.28	Basic principle of operation of AC Ammeter and Multi range Ammeter
4TH	22.08.22	Basic principle of operation of DC Voltmeter and its applications
	23.08.23	Basic principle of operation of AC Voltmeter and its applicatio
	24.08.23	Basic principle of Ohm Meter (Series & Shunt type
	28.08.23	Basic principle of Analog Multimeter, its types & applications
5TH	29.08.23	Operation of Q meter and its essentials
31H	30.08.23	Digital Instruments
	31.08.23	Principle of operation of Ramp type Digital Voltmeter & applications
2ND	04.09.23	Operation of display of 3 1/2, 4 1/2- Digital Multimeter & Resolution and Sensitivity
	05.09.23	Basic principle of operation of working of Digital Multimeterits types & applications
	06.09.23	Basic principle of operation of working of Digital Frequency Mete
	07.09.23	Types of Counter & applications
3RD	11.09.23	Operation of working of Digital Measurement of Time
	12.09.23	Measurement of Frequency.
	13.09.23	Principle of operation of working of Digital Tachometer
	14.09.23	Principle of operation of working of Automation in Digital Instruments (Polarity Indication, Ranging, Zeroing & Fully Automatic)
4TH	18.09.23	Block diagram of LCR meter & its working principle.
	20.09.23	Oscilloscope
	21.09.23	Basic principle of Oscilloscope& its Block Diagram
	25.09.23	Basic principle & Block diagram of CRO, Dual Trace Oscilloscope & its specification

5TH	26.09.23	CRO Measurements, Lissajous figures	
	27.09.23	Applications of Oscilloscope (Voltage period & frequency measurement)	
	28.09.23	Applications of Oscilloscope (Voltage period & frequency measurement)	
1ST	02.10.23	Operation of Digital Storage Oscillana 8 11: 1 6	
	03.10.23	Operation of Digital Storage Oscilloscope& High frequency Oscilloscope	
	04.10.23	Operation of Digital Storage Oscilloscope& High frequency Oscilloscope	
	05.10.23	NE VISION	
2ND	09.10.23	CLASS TEST	
	10.10.23	Bridge	
	11.10.23	Types of Bridges (DC& Ac Bridges)	
	12.10.23	Types of Bridges (DC& Ac Bridges)	
	16.10.23	DC Bridges (Measurement of Resistance by Wheatstone's Bridge)	
3RD	17.10.23	INTERNAL	
	18.10.23	INTERNAL	
	19.10.23	INTERNAL	
4TH	2010-010-010-010-010-01	INTERNAL	
	21.10.23 10 28.10.	PUJA HOLIDAYS	
5ТН	30.10.23	AC bridges (Measurement of inductance by Maxwell's Bridge & by Hay's Bridge)	
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	31.10.23	AC bridges (Measurement of inductance by Maxwell's Bridge & by Hay's Bridge)	
1ST	01.11.23	intersurement of capacitance by Schering's Bridge & DeSauty Bridge	
	02.11.23	Measurement of capacitance by Schering's Bridge & DeSauty Bridge.	
200	06.11.23	Working principle of Q meter its circuit diagram & measurement of Low impedant	
2ND	07.11.23	Incasor ement of frequency	
	08.11.23	LCR Meter & its measurements	
	09.11.23	REVISION	
	13.11.23	Transducers & Sensors	
	14433333	Parameter, method of Selecting & advantage of Electrical Transducer & Resistive	
3RD	14.11.23	Hallsducer	
	15/1/1/05/6	Working principle of Strain Gauges, define Strain Gauge (No mathematical	
	15.11.23	Derivation)	
	16.11.23	Working principle of LVDT	
4ТН	20.11.23	Working principle of capacitive transducers (pressure)	
	21.11.23	Working principle of Load Cell (Pressure Cell)	
	200000000000000	Working principle of Temperature Transducer (RTD, Optical Pyrometer,	
	22.11.23	[Inermocouple, Thermister)	
	23.11.23	Working principle of Current transducer and KW Transducer.	
	27.11.23	Working principle of Proximity & Light sensors	
5TH	28.11.23	Signal Generator, Wave Analyser & DAS	
	29.11.23	General aspect & classification of Signal generator	
	30.11.23	Working principle of AF Sine & Square wave generator	

H. O. D.

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