	Subject-	A CONTRACTOR OF THE CONTRACTOR	SON PLAN (SUMMER- 2022) Semester the SEC-E1 Branch- Electrical Engineering	
NAME (	F FACULTY-SUSMI			
WEEK		NO OF CLASSES AVAILBLE	TOPICS TO BE COVERED	NO OF PERIODS
1	10-03-22 to 12- 03-22		MEASURING INSTRUMENTS 1.1 Define Accuracy, precision, Errors, Resolutions Sensitivity and tolerance	1
			1.2 Classification of measuring instruments	1
			1.3 Explain Deflecting, controlling and damping arrangements in	1
			indicating type of instruments.  1.4 Calibration of instruments	1
2	14-03-22 to 19- 03 -22	3	ANALOG AMMETERS AND VOLTMETERS 2.1. Describe Construction, principle of operation, errors, ranges merits and demerits of:	1
			2.1.1 Moving iron type instruments	1
			2.1.2 Permanent Magnet Moving coil type instruments.	1
3	21-03-22 to 26- 03-22	5	2.1.3 Dynamometer type instruments 2.1.4 Rectifier type instruments	1
			2.1.4 Rectifier type instruments 2.1.5 Induction type instruments	1
			2.2 Extend the range of instruments by use of shunts and	1
			Multipliers.	1
			2.3 Solve Numerical WATTMETERS AND MEASUREMENT OF POWER 3.1 Describe	*
4		4	Construction, principle of working of Dynamometer type	1
	28-03-22 to 02- 04-22		wattmeter. (LPF and UPF type)  3.2 The Errors in Dynamometer type wattmeter and methods of	1
			their correction.	1
			3.3 Discuss Induction type watt meters	1 1
			cont	L
5	04-04-22 to 09- 04-22	5	ENERGYMETERS AND MEASUREMENT OF ENERGY 4.1 Introduction	1
			4.2 Single Phase Induction type Energy meters – construction, working principle and their compensation & adjustments	1
			cont	1
			4.3 Testing of Energy Meters.	1
			MEASUREMENT OF SPEED, FREQUENCY AND POWER FACTOR 5.1 Tachometers, types and working principles	1
			cont	1
6	11-03-22 to 16- 04-22	3	5.2 Principle of operation and construction of Mechanical and Electrical resonance Type frequency meters	1
		5	5.3 Principle of operation and working of Dynamometer type	1
	.8-04-22 to 23- 04-22		single phase and three phase power factor meters cont	1 1
			MEASUREMENT OF RESISTANCE, INDUCTANCE& CAPACITANCE	<b>-</b>
7 1			6.1 Classification of resistance	1
			6.11. Measurement of low resistance by potentiometer metho .	d.
			6.12. Measurement of medium resistance by wheat Stone bridge method	
			6.13. Measurement of high resistance by loss of charge metho	nd

	25-04-22 to 3		6.2 Construction, principle of operations of Megger & Earth tester for insulation resistance and earth resistance measurement	1
8	04-22	5	respectively	1
	04-22		cont	
			6.3 Construction and principles of Multimeter. (Analog and Digital	1 1
			cont	1
9	02-05-22 tp 07 05-22	7- 5	6.4 Measurement of inductance by Maxewell's Bridge method	1
			cont	1
			6.5 Measurement of capacitance by Schering Bridge method	1
			cont	1
	09-05-22 to 14- 05-22	5	SENSORS AND TRANSDUCER 7.1. Define Transducer, sensing element or detector element and transduction elements.	1
			7.2. Classify transducer. Give examples of various class of	1
10			transducer 7.2.4 Linear and angular motion	
			7.3. Resistive transducer 7.3.1 Linear and angular motion	1 -
			potentiometer.	1
			7.3.2 Thermistor and Resistance thermometers	1
			7.3.3 Wire Resistance Strain Gauges	1
	16-05-22 to 21- 05-22	4	cont	
			7.4. Inductive Transducer 7.4.1 Principle of linear variable	1
11			differential Transformer (LVDT	1
			7.4.2 Uses of LVDT	1
			7.5. Capacitive Transducer	1
		5	7.5.1 General principle of capacitive transducer	1
			7.5.2 Variable area capacitive transducer.	1
12			7.5.3 Change in distance between plate capacitive transducer.	<u> </u>
			7.6. Piezo electric Transducer and Hall Effect Transducer with	1
	23-05-22 to 28-		their applications.	
	06-22		cont	1
13			OSCILLOSCOPE 8.1. Principle of operation of Cathode Ray Tube.	1
			8.2. Principle of operation of Oscilloscope (with help of block diagram).	1
	30-06-22 to 04-		cont	1
	06-22		8.3. Measurement of DC Voltage & current	1
	06-06-22 to 10- 06-22	4	cont	1
			8.4. Measurement of AC Voltage, current, phase & frequency	1
4			revision	1
	교계되는 경기를 다 맛을 다.		revision	1

for Maga 915/2 14.0.D (ELECTRICAL)