SUBJECT: Electrical Measurements and Instrumentation ACY							
FACULTY: Mrs Debidasi Mohanty SEMESTER-Odd							
S.NO.	PERIOD(S)	TOPIC TO BE COVERED	REMARKS				
1	1	Introduction to Electrical Measurements & Inst.					
2	2	Classification of measuring instruments, Errors					
3	3	Problems on errors					
4	4	Construction and working of PMMC meters					
5	5	Construction and working of MI meters					
6	6	Problems on extension range					
7	7	Construction and working of Electrodynamotype meters					
8	8	Single Phase dynamometer type wattmeter					
9	9	Single Phase Induction type Energy meter					
10	10	Three Phase energy meters					
11	11	Frequency meters					
12	12	Current Transformer, ratio & Phase angle errors					
13	13	Problems on ratio & Phase angle errors					
14	14	Potentional Transformer, ratio & Phase angle errors					
15	15	D'Arsonval and Vibration Galvanometers,					
16	16	Ballistic Galvanometer					
17	17	DC Potentiometer, Crompton potentiometer					
18	18	AC Potentiometer, Drysdale polar potentiometer					
19	19	Standardization & Application of DC/AC potentiometers					
20	20	General equations for bridge balance					
21	21	Maxwell's Inductance Bridge					
22	22	Problems					
23	23	Hay's Bridge, Owen's Bridge					
24	24	Measurement of capacitance by Schearing bridge					
25	25	Problems					
26	26	Wagner's earthing device, Kelvin's Bridge					
27	27	Strain Gauges, Thermistors, Thermocouples					
28	28	Linear Variable Differential Transformer					
29	29	Peizo-Electric transducers, Optical Transducer					
30	30	CRO: Block diagram					
31	31	Sweep generation, vertical amplifiers					
32	32	Problems on CRO					
33	33	Digital Multi-meter: Block diagram					
34	34	Problems					
35	35	Principle of operation of Digital multi-meter					
36	36	Transistor Voltmeter, Block diagram					
37	37	Problems					
38	38	Various types of electronic voltmeter					
39	39	Digital Frequency meter: Block diagram,					
40	40	Revision and discussion on previous papers					