



LESSON PLAN

Name of the Subject: Electronic Measurements AND instrumentation

Year & Sem: IV B.Tech / II Sem

Dept : ECE A & B

S.No	Date	Topic Planned	Classes Required	Cumulative Classes
1	27-11-2017	UNIT-I Performance characteristics of instruments, Static characteristics	1	1
2	28-11-2017	Accuracy, Resolution, Precision, Expected value, Error, Sensitivity	1	2
3	29-11-2017	Errors in Measurement	1	3
4	30-11-2017	Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error.	1	4
5	1-12-2017	Multirange Voltmeters	1	5
6	4-12-2017	Range extension/Solid state	1	6
7	5-12-2017	Differential voltmeters	1	7
8	6-12-2017	AC voltmeters- multi range, range extension, shunt.	1	8
9	7-12-2017	Thermocouple type RF ammeter,	1	9
10	8-12-2017	Ohmmeters series type	1	10
11	11-12-2017	shunt type, Multimeter for Voltage	1	11
12	12-12-2017	Current and resistance measurements.	1	12
13	13-12-2017	UNIT – II Signal Generator- fixed and variable AF oscillators	1	13
14	14-12-2017	Standard and AF sine and square wave signal generator	1	14
15	15-12-2017	Function Generators	1	15
16	18-12-2017	Square pulse Random noise	1	16
17	19-12-2017	sweep, Arbitrary waveform. Wave Analyzers	1	17
18	20-12-2017	Harmonic Distortion Analyzers	1	18
19	21-12-2017	Spectrum Analyzers	1	19
20	22-12-2017	Digital Fourier Analyzers.	1	20
21	26-12-2017	UNIT-III Oscilloscopes CRT features, horizontal deflection system, vertical amplifiers, horizontal deflection system	1	21
22	27-12-2017	Sweep, trigger pulse, delay line	1	22
23	28-12-2017	Simple CRO	1	23
24	29-12-2017	Dual beam CRO	1	24
25	02-1-2018	Triggered sweep CRO,	1	25
26	03-1-2018	Dual trace oscilloscope	1	26



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27	04-1-2018	Sampling oscilloscope	1	27
28	05-1-2018	Digital readout oscilloscope,	1	28
29	08-1-2018	Digital storage oscilloscope	1	29
30	09-1-2018	standard specifications of CRO	1	30
31	10-1-2018	Probes for CRO- Active & Passive,	1	31
32	11-1-2018	Attenuator type	1	32
33	16-1-2018	Frequency counter, Time and Period measurement.	1	33
34	17-1-2018	Lissajous method of frequency measurement, sync selector circuits	1	34
35	18-1-2018	UNIT-IV AC Bridges Measurement of inductance	1	35
36	19-1-2018	Maxwell's bridge, Anderson bridge	1	36
37	29-1-2018	Measurement of capacitance - Schearing Bridge	1	37
38	30-1-2018	Wheat stone bridge, Kelvin Bridge	1	38
39	31-1-2018	Hay's bridge	1	39
40	1-2-2018	Errors and precautions in using bridges	1	40
41	2-2-2018	Q-meter.	1	41
42	5-2-2018	UNIT-V Transducers- active & passive transducers, Resistance, Capadtance	1	42
43	6-2-2018	Inductance	1	43
44	7-2-2018	Strain gauges	1	44
45	8-2-2018	LVDT	1	45
46	9-2-2018	Piezo Electric transducers	1	46
47	12-2-2018	Resistance Thermometers	1	47
48	13-2-2018	Thermocouples	1	48
49	15-2-2018	Thermistors	1	49
50	19-2-2018	UNIT VI Measurement of physical parameters force	1	50
51	20-2-2018	Pressure	1	51
52	21-2-2018	Velocity	1	52
53	22-2-2018	Humidity	1	53
54	23-2-2018	Moisture	1	54
55	26-2-2018	Speed	1	55
56	27-2-2018	Proximity	1	56
57	28-2-2018	Displacement	2	57
58	1-3-2018	Data acquisition systems	1	58
59	2-3-2018	ADD ON TOPIC: True RMS voltmeter	1	59
60	5-3-2018	Digital frequency meter	1	60