Lesson Plan

Name of Faculty : Loveleena
Discipline : I&C
Semester : 3rd sem
Subject : TSC
Lesson Plan Duration : 15 weeks(from Sept 2022 to Jan 2023)
Work Load (lecture/practical)per week (in hours) : Lectures- 03, practical- 02

Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	Practical Topic
1	1	Defination of Transducer, Classification of Transducer	1	Study of strain gauge and measurement of strain for a given sample
	2	Selection Criteria of Transducer	2	
	3	Characteristics of Transducer		
2	4	Construction, working Principle, Advantage and Disadvantage, Application of Potentiometer	3	Study of piezoelectric pressure transducer
	5	Strain Gauage, Hot Wire anemometer	4	
	6	Resistive Temperature Transducer (RTD, Thermistor)		
3	7	Pick-up	5	Study of RTD (Resistance Temperature detector)
	8	Assignment 1	6	
	9	Revision of 1 and 2 chapter		
4	10	Construction, working Principle, Advantage and Disadvantage, Application of LVDT	7	All files are checked
	11	RVDT	8	
	12	Electromagnetic Pick-up		
5	13	Inductive Microphone	9	Viva Voice 1
	14	Revision of 3 chapter		
	15	Revision of sessional test 1	10	
6	16	Sessional test 1	11	Study of thermistor and Measurement of temperature
	17	Construction, working Principle, Advantage and Disadvantage, Application of Capacitive Pick –Up		
	18	Condenser/Capacitor microphone	12	
7	19	Differntional Capacitor Pick-up	13	Study of calibration of LVDT
	20	Revision of 4 chapter		
	21	Assignment 2	14	

8	22	Construction, working Principle, Advantage and Disadvantage, Application of Piezoelectric Transducer	15	Viva Voice 2
	23	Seismic Pick-up	16	
	24	Revision of sessional test 2		
9	25	Revision of sessional test 2	17	Study of capacitive transducer and measurement of angular displacement
	26	Sessional test 2		
	27	Accelerometer	18	
10	28	Digital Transducer –Shaft Encoders	19	Study of magnetic pick up
	29	Carbon / Resistive Microphone	20	
	30	Revision of chapter 5		
11	31	Revision of chapter 5	21	Study and draw the characteristics of a capacitance transducer
	32	Linearization		
	33	Conversion of Voltage to Frequency	22	
12	34	Conversion of Frequency to Voltage	23	Study of thermocouple
	35	Conversion of Voltage to Current	24	
	36	Conversion of Current to Voltage		
13	37	Filtering and Impedance Matching	25	To study and draw the characteristics of LDR, Photo diode, Photo transistor, Capacitance transducers
	38	Revision of chapter 6	26	
	39	Revision of chapter 6		
14	40	Assignment 3	27	All files are checked
	41	Seminar		
	42	Seminar	28	
15	43	Revision of sessional test 3	29	Viva Voice 3
	44	Sessional test 3		
	45	Revision	30	