lesson Plan

Name of Faculty: Shiwani
Discipline: I&C
Semester: 5th sem
Subject: PI

Lesson Plan Duration: 15 weeks(from Aug to Dec 2024)
Work Load (lecture/practical)per week Lecture-4, Practical-3)

Week		Theory		Practical
	Lecture Day	Topic(including assignment/test)	Pra ctic al wee k	Practical Topic
1	1	Define following process variables along with their importance and measuring	1	Measurements of flow using Rotameters
	2	Temperature, Pressure		
	3	Level, Flow		
	4	Construction, working principle, applications, advantages & disadvantages		Measurement of flow using
2	5	Thermocouples , Thermistors , Radiation pyromet	2	Venturi tube and U-tube manometer
	6	IR detectors ,Fiber Optic Thermometer		
	7	Pressure Measurements (Construction, working principle, applications, advantages & disadvantages of the	3	Measurement of Level using capacitive method
	8	Pressure Measurements using Manometers (U, Well and Inclined)		
3	9	Pressure Measurements using elastic elements (Bourdon, Bellow, Diaphragm)		
	10	Low Pressure Measurements using (Thermocouple, Pirani, Ionization, Mc Leod, kundsan gauges		Management
	11	Flow Measurements (Construction, working principle, applications, advantages & disadvantages of the following)	4	Measurement of Level using resistive method
	12	Variable flow meter (Venturimeter and Orifice) ,Rotameters		
4	13	Electromagnetic flow meter	5	Measurement of Pressure using U-tube manometer
	14	Hot Wire Anemometers		
	15	First sessional test		
	16	Turbine Flow Meters		

		Level Measurements (Construction,		Measurement
	17	working principle, applications,		of Pressure
		advantages & disadvantages of the	6	using Bourdon
		Level Measurements using Sight glass		tube
5	18			
-		Level Measurements using Pressure		
	19	Transducers (Two Scheme only)		Measurement
	20	Level Measurements using Pressure	7	of Temperature
	20	Transducers (Two Scheme only)		using IR detector
	21	Assignment 1		ucitotisi
	22	Ultrasonic Flow meter		Level
6		Level Measurements using Electrical	8	Measurements
	23	Resistive method		using Ultrasonic Method
	24	2nd sessional test revision		
	25	2nd sessional test		
7	26	Revision	9	VIVA - VOCE
,	27	Revision		
	28	Assignment 2		
	29	All notebooks are checked	10	All files are checked
8	30	Revision		
	31	Revision		
	32	Revision	11	VIVA - VOCE
	33	Revision		
	34	Assignment 3		
9	25	Revision	12	VIVA - VOICE
	35		12	VIVA - VOICE
	36	Level Measurements using Buoyancy		
	37	Level Measurements using Electrical		
	38	Assignment 1		
10	39	Level Measurements using Gamma Rays	13	VIVA - VOCE
	40	Level Measurements using Ultrasonic		
	41	3rd sessional test revision	14	VIVA-VOCE
1.1			1	
l 11 l	42	3rd sessional test revision		
11	42 43	3rd sessional test revision 3rd sessional test		. 11 0"
11			15	All files are checked