

Detailed Teaching Plan

Lecture No.	PLANNED DATE	Unit No	Topics to be covered	UNIT NO	Execution Date	Remarks
01	03/02/2025	2 nd	Basic Introduction & syllabus	01	From 02/02/2025 to 19/02/2025	
02,03	04/02/2025	1 st , 3 rd	Measurement, Instrument & its classification			
04,05	05/02/2025	4, 5 th	Basic terminology of measurement.			
06,07	06/02/2025	4, 5 th	stages of Measurement system			
08,09	07/02/2025	1, 2 nd	Classification of Input & standard			
10	10/02/2025	4 th	classification of Transducer			
11,12,13	18/02/2025	1, 4, 5 th	Pzt, Resistive & Inductive transducer			
14,15	19/02/2025	1, 3 rd	capacitive, Transducer, sensor & its classification, Advn, Disadvantage.			
16,17	20/02/2025	1 st , 2 nd	Open loop & close loop control system.			
18	21/02/2025	5 th	Transfer function & its importance			02
19	22/02/2025	1 st	ON/OFF control system			
20	23/02/2025	3 rd	P, I, D controller			
21	27/02/2025	4 th	PI, PD, PID controller			
22	28/02/2025	1 st	Comparator & its classification.			
23	13/02/2025	1 st	Measurement standard: T, F, v			
24	14/02/2025	1 st	ANSI, ASNE, ADA, API, ISI etc			
90						

Detailed Teaching Plan

Lecture No	Unit No	Topics to be covered	Planned Date	Execution Date	Remarks
25, 26	06 th	Strain gauge introd ⁿ & relation b/w σ & ϵ Type of strain gauge - Resistance S-gauge Bounded & unbounded type, Strain gauge foil, semi conductor, around type S-gauge Selection & installation of strain gauge Strain rosettes, & load cell Classification of strain rosettes.	01/03/2025	From 01/03/2025 to 11/03/2025	
27, 28			03/03/2025		
29, 30			04/03/2025		
31, 32			05/03/2025		
33			06/03/2025		
34, 35			08/03/2025		
36, 37			11/03/2025		
38	03 rd	RVDT & Potentiometer & its classification LVDT, Drag cup, magnetic pickup tachometers Incremental optical encoder Eddy current & Mechanical tachometer Stroboscopic tachometer, Photoelectric tachometer Inductive tachometer Capacitive tachometer & non contacting electrical tachometer.	17/03/2025	From 17/03/2025 to 26/03/2025	
39, 40, 41			18/03/2025		
42			19/03/2025		
43, 44			20/03/2025		
45, 46			21/03/2025		
47			22/03/2025		
48, 49			26/03/2025		
50	05 th	Diaphragm gauge Coulson tube & flow measurement device Introduction	22/03/2025	22/03/2025	
51, 52			26/03/2025	21/03/2025	

Dr. Kulkarni

Detailed Teaching Plan

Lecture No	Unit No	Topics to be covered	Planned Date	Execution Date	Remarks
53	05th	Venturimeter	27/03/2025	27/03/2025	
54		orifice meter	28/03/2025	28/03/2025	
55	04th	Temperature measurement device, Classification & Introduction	29/03/2025	From 29/03/2025 to 15/04/2025	
56, 57		Bimetallic thermometer & thermocouple	04/04/2025		
58, 59		Optical Pyrometer, RTD & its construction, advn	02/04/2025		
60, 61		Thermistor - principle advn, Disadvn	08/04/2025		
62, 63		Rotameter & flow nozzle	11/04/2025		
64, 65		Pitot tube & calibration of pressure gauge with dead weight tester	15/04/2025		

Asst. Prof.

Principal
Govt. Co-Ed Polytechnic
Raipur (C.G.)