

Lesson Plan

Name of the Faculty : Smt. Rajni (Guest Faculty) (Theory) and (Practical) both

Discipline : I&C Engineering

Semester : 4th

Subject : INDUSTRIAL COMMUNICATION

Lesson Plan Duration : 15 weeks (From 22/03/2021 to 02/07/2021)

Work Load (Lecture/Practical) per week(in hours)P: Lectures-03 Practicals-03

Week	Lecture Day	Theory Topic (including assignment/test)	Practical Day	Practical Topic
1 st	1 st	Introduction	1 st	Measurement of pressure using pneumatic transmitter
	2 nd	Introduction and applications of telemetry	2 nd	
	3 rd	Methods of data transmission	3 rd	
2 nd	4 th	Same topic revise	4 thDo.....
	5 th	Block Diagram of general Telemetry system	5 th	
	6 th	Voltage telemetry	6 th	
3 rd	7 th	Land Line Telemetry	7 th	Measurement of differential pressure using PDPT
	8 th	Current Telemetry	8 th	
	9 th	Sessional test	9 th	
4 th	10 th	Same topic revise	10 th	File check / viva voice
	11 th	Position Telemetry	11 th	
	12 th	Ratio Telemetry	12 th	
5 th	13 th	R.F. Telemetry	13 th	Realization of electric transmitter
	14 th	A.M., F.M.	14 th	
	15 th	Block diagram of P.A.M.	15 th	
6 th	16 th	Block diagram of P.C.M.	16 thDo....
	17 th	Same topic Revise	17 th	
	18 th	Pneumatic Transmitter	18 th	
7 th	19 th	PDPT bellow type	19 th	Study of hydraulic transmitter
	20 th	PDPT diaphragm type	20 th	
	21 th	Force balance type	21 th	

8 th	22 th	Sessional test	22 th	...Do.....
	23 rd	Hydraulic Transmitter	23 rd	
	24 th	Bellow type	24 th	
9 th	25 th	Electric transmitter	25 th	To observe AM & FM waves on CRO
	26 th	Resistive Transmitter	26 th	
	27 th	Inductive Transmitter	27 th	
10 th	28 th	Wire line channels	28 th	File check / viva voice
	29 th	Radio Channels	29 th	
	30 th	Same topic revise	30 th	
11 th	31 th	Assignment	31 th	To calculate modulation index m for AM & FM
	32 th	Multiplexing channels	32 th	
	33 rd	Time division multiplexing	33 th	
12 th	34 th	Frequency division multiplexing	34 th	File check / viva voice
	35 th	Introduction and block diagram of data communication	35 th	
	36 th	Modulation & demodulation of signals using	36 th	
13 th	37 th	Amplitude shift keying	37 th	Familiarization with Ethernet and LAN
	38 th	Frequency shift keying	38 th	
	39 th	Phase shift keying	39 th	
14 th	40 th	General view of instrumentation buses GPIB	40 thDo....
	41 th	Interbus and Profibus/Profinet	41 th	
	42 th	Ethernet	42 th	
15 th	43 th	HART Communication Protocol	43 rd	File check/ viva voice
	44 th	Fibre Optic Communication	44 th	
	45 th	Sessional test	45 th	