

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

Semester : 2nd Sem, M-Tech

LESSON PLAN

Subject: ICS

Session : MAY 2017

Theory/Sessional: Theory

Branch/Course : Electrical Engineering (I&C)

Name of the Faculty Member: Mrs. Sarmila Garnaik

Period	Module/ No.	Topic to be covered	Remarks
1	I	Interface: Introduction	
2		Principles of interface	
3		Principles of interface	
4		Serial interface	
5		Standard of serial interface	
6		Serial interface	
7		Parallel interface	
8		Buses	
9		Introduction to Field bus	
10	II	Use of field bus in industrial plants	
11		Functions of Field buses	
12		International standards	
13		Performance of Field bus	
14		Ethernet network and its use	
15		Field bus advantages and disadvantages	
16		Field bus design	
17		Field bus installation	
18		Field bus economics	
19		Field bus documentation	
20	III	Instrumentation network design and upgrade	
21		Instrumentation design zones	
22		Cost optimal of instrumentation network design	
23		Accurate sensor networks	
24		Global system architecture	
25		Advantages and limitation of open network	
26		HART network	
27		HART network	
28		Foundation of field bus	
29		Foundation of field bus network	
30	IV	PROFIBUS-PA: Introduction	
31		PROFIBUS Basics	
32		Architecture of PROFIBUS-PA	
33		Model of PROFIBUS-PA	
34		Network design	
35		System configuration	
36		Designing PROFIBUS-PA	
37		Foundation Field bus segments	
38		General configuration of field bus segments	
39		Question discussion	
40	Question discussion		

Signature of the Faculty Member
Date:

Counter Signature of HOD