

Course Name		:	Basics of process instrumentation						
Course Code		:	PI01						
Course Object	tive								
Provides an int instruments us	roduction ed to sens	n to se,	o the field of Instrumentation and covers process variables and the measure, transmit and control these variables	various					
			Durati	on of course = 40					
Lecture/Labw	Number of hours								
1.	INTRO								
	Introdu Field De Softwar	5							
2.	FIELD I								
	Pressu Configu	re Ira	<b>Transmitter</b> - Measurement Technologies-Features- tionCommissioning-Troubleshooting.						
	<b>Tempe</b> Configu								
	<b>Flow T</b> Ultraso	20							
	<b>Level Transmitter</b> - Measurement Technology (Ultrasonic, Radar, Capacitance)-Features- Configuration-Commissioning-Troubleshooting.								
	<b>Electro</b> Feature	<b>P</b> P s (	<b>neumatic Positioner</b> - Measurement Technology (Rotary)- Configuration-Commissioning-Troubleshooting						
3.	INTER								
	Interfac PA- HAI	15							
Course Outcome	Student measure selectio instrum								



Course Name		:	Basic of Proce	ess Control S	system (DCS)	)					
Course Code			: PI02								
Course Ol	<b>jective:</b> Makin	lg p	ticipants famil	iar with SIN	ATIC PCS 7	7 System					
							Duration	of course = 40hrs.			
Lecture/Lab wise breakup							Number of hours				
1.	Introduction to										
	Introduction to with AS.	8									
2.	Working with	SI	ATIC Manage	er in PCS7 fa	ashioned way	Ι.					
	Exercises 1, Exercises 2 Exercises 3 (Creating the Multiproject and Configuring Hardware (AS & OS))							8			
	Working with	dif	erent views like	e Componen	nt View & Pla	ant View.		_			
	Working with charts.	CI	Charts and de	evelop logic	using CFC c	harts Optimiz	vation of the				
3.	Working with modes availab	8									
	Compiling, downloading & testing CFC & SFC charts										
	Compiling Op										
	User interface										
4.	Working with	king with standard faceplates, Messages and Trends.									
	Introduction to Time synchronization, Life beat monitoring, Picture tree manager & user administration Introduction to OS Project Editor & Licensing Concept in PCS 7. Introduction of Server-Client architecture.										
5.	System overvi Testing functi option (introdu	System overview of SIMATIC WinCC V7.4, Tag Management, Project creation, Testing functions with variable simulation, Create Faceplate, User Administration option (introduction)8									
Course Outcome	After success automation, de										