	CENTRE OF EXCELLENCE IN MANUFACTURING **NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI**
	Process Instrumentation Lab

Basics of Process Control System	**Duration: 40 Hours**

PREREQUISITES	Basic Knowledge in sensors and Actuators and PLC
WHO SHOULD ATTEND	Engineering student, Industry People, Research Scholars

Introduction — 10 Hours

Introduction Process Automation – Application of Process Automation-Distributed Control systems and PCS7- Communication Protocols-Process Control System Architecture- Piping and Instrumentation Diagram-Introduction about Simatic Manager-Demonstration of Client server Architecture.

Configuration In SIMATIC MANAGER — 20 Hours

Creating Automation Station (AS)-Introduction to AS hardware like Ps, CPU-Creating a different views in Simatic Manager-Introduction about Piping and Instrumentation Diagram -Developing Continuous Function Chart (CFC) - Creating Engineer Station (ES) - launch the OS.

Configuration In Wincc — 10 Hours

Introduction about Wincc-Working with SCADA System- Creating Process tags Types-Picture using Graphics Editor-Sequential Function Chart.