



A.V.C. COLLEGE OF ENGINEERING

| Approved by AICTE, New Delhi || Affiliated to Anna University, Chennai |

| Accredited by NAAC with 'B++' grade (CGPA '2.88/4.00') |

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Mannampandal, Mayiladuthurai



DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

NAME OF THE MODROBS PROJECT: Design and Realization of Advanced
Controllers for Non Linear Processes

LIST OF EQUIPMENTS

S.No	Name of the Equipment	Quantity	Specifications
1.	Multi Process controller(Cascade,Ratio)	01	*four tank system, conical tank system and spherical tank * Six numbers of level transmitter (DPT) * Three numbers of smart control valve with positioned * Three numbers of centrifugal pump * Two flow transmitters for conducting flow, cascade and Ratio control. *Pump indicator *Short circuit protection (Safety Panel) *Storage tank of 100 litre capacity (SS). *Rotameter for Visual indication of the flow rate. *Relay circuit is provided to ON/OFF the solenoid valve. *Built in regulated power supply.
2.	Control Valve for spherical Tank system in Chemical Industries	01	*Rocker switch is provided to ON/OFF the process plant *Pump ON/OFF switch *Short circuit protection *MATLAB and LabVIEW compatible
3.	PLC Trainer Kit	01	*Digital Inputs : 12 Nos *Digital Outputs : 4 Nos *Analog Inputs: 8 Nos *Analog Outputs: 4 Nos
4..	Digital Storage Oscilloscope	01	Channels: Dual Bandwidth: 100 Mhz Resolution: 320 x 234 Pixel



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5.	MATLAB Version 12	(5 Users)	<ul style="list-style-type: none"> * Aerospace Blockset, OPC Tool Box, RF Tool Box, Simulink 3D, Animation, Simulink Control Design and Simulink Design.
6.	Multi process trainer (Temperature and Pressure) for Industrial safety	01	<ul style="list-style-type: none"> *A Stainless Steel Orifice with differential pressure transmitter (0-4000) mm * RF capacitance level transmitter(800) mm *A pressure transmitter capacity of (0-5) bar is provided to sense the tank pressure * A RTD(pt 100) Module temperature transmitter (0-100 degree C) is provided to sense the temperature *A 3KW heater is provided to heat the water *A Reservoir tank (stainless steel) 25 liter capacity is provided.
7.	Interacting trainer (conical tank) in pharmaceutical applications	01	<ul style="list-style-type: none"> * Two conical tank system * Two numbers of level transmitter (DPT) * Two numbers of smart control valve with positioned * Two numbers of centrifugal pump * Appropriate Digital panel meters * Rotameter * Rocker switch for variable area is provided to ON/OFF the process plant *Pump indicator *Short circuit protection (Safety Panel) *LabVIEW compatible Hardware Tool Boxes (DAQ Card)