## MANIPAL UNIVERSITY JAIPUR



School of Electrical, Electronics & Communication Engineering

Department of Electrical Engineering

## Lab & Equipment Details (CA Lab) Location: 1AB Building, Room No. 213

Name of Laboratory	Control & Automation Lab
Lab Description	The Lab offers students to study the basic concept of control systems by applying and implementing Modelling & Simulation of Systems and automation used in the industry, targeting students who wish to pursue research & development in industries or higher studies in the field of Control Systems & Automation Engineering.
Lab Resources	Ball Balancing Control System
	2) Digital Storage Oscilloscope
	3) Model Based Development Software Platform
	4) PMSM Hardware Bundle
	5) Control System Kit (NVIS/3000A)
	6) Control System Simulator (2454)
	7) PID Controller Kit (2451)
	8) My RIO (1900)
	9) PLC Simatic S7 1200 with HMI
	10) Sinamics G120
	11) Pressure Process Controller (VPPA 401 CE)
	12) Ratio Control Trainer (VPPA 402-CE)
	13) Inverted Pendulum Trainer Kit
	14) Digital PID Controller (Microcontroller Based) (VDPID 02)
	15) Flow Process Control Station (Wheel Flow Meter)
	16) Temperature Process Control Station (Water Tank 100 Degree Celsius)
	17) Cascade Control Trainer-Flow Level Integrated Process Controller
	18) Feed Forward Control