Faculty of Electrical Engineering

M.E. Control and Instrumentation Engineering
(R 2017) Semester – I
IN5161 MODELING AND SIMULATION LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	MATLAB / SIMULINK Software	5		
2.	Scilab / Scicos Software (Open source)	1		
3.	Personal computer	20		

Faculty of Electrical Engineering

M.E. Control and Instrumentation Engineering

(R 2017) Semester – II
CL5211 DIGITAL CONTROL AND INSTRUMENTATION LABORATORY

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Simulation software like MATLAB / LABVIEW or other open source software	20		
2.	Personal computer of suitable configuration to run the simulation	20		
3.	Data acquisition cards with PC interface	10		
4.	Microcontroller evaluation boards (like Aurdino, Pic or others) with analog and digital interfaces	10		
5.	Digital Closed loop control system demo module like position or speed or temperature control	2		

Faculty of Electrical Engineering

M.E. Control and Instrumentation Engineering
(R 2017) Semester – II
IN5261 AUTOMATION LABORATORY
(Requirements for a batch of 25 students)

Sl. No	Description of Equipment	Quantity required (R	Quantity available (A	Deficiency (R - A)
1.	PC with DAQ cards	5		
2.	MATLAB/LABVIEW software	5		
3.	Thermal process station with options for interfacing with Embedded Controller/PC	1		
4.	PC based level process station	1		
5.	Industrial type DCS from any standard make (Such as Yokogawa/Emerson/Siemens/Invensys/Equivalen	1		
6.	Industrial type PLC from any standard make ((Such as Schneider/Siemens/MITSIBISHI/Equivalent)	2		
7.	Pilot process station for filling /training to be interfacing with PLC	1		