

Advanced Control Engineering Lab

The Advanced Control Laboratory extends over a wide range of topics within the scope of advanced control theory. It caters to “Control and Computation” Laboratory course of M.Tech. (Signal Processing and Control) Programme of Electrical Engineering Department. It also facilitates the interested master level and doctoral students to pursue the experimentation in the field of advanced control engineering.

The main objectives of the laboratory include development of mathematical models of different linear/nonlinear systems, understanding intricacies of complex control tasks and implementation & realization of control strategies. The laboratory experiments are designed so as to expose the post graduate students to theory of nonlinear processes, industrial automation and different control strategies used in practice.



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Equipment Details

Sr. No.	Hardware	Make	Qty
1.	Magnetic Levitation Experimental Set-up	Feedback	01 No.
2.	A.C.Servo Motor Set-up	Vinytics	01 No.
3.	Twin Rotor System Set-Up	Feedback	01 No.
4.	Digital Pendulum Set-Up	Feedback	01 No.
5.	Coupled Tanks System Set-up	Feedback	01 No.
6.	Feedback Instructional AC/DC or Hybrid Servo System Modular Kit	Feedback	01 No.
7.	Synchro Transmitter-Receiver Pair Set-up	Vinytics	01 No.
8.	Relay Control System	Vinytics	01 No.
9.	Digital Control System	Vinytics	01 No.
10.	Microprocessor Based Stepper Motor Control Set-up	Moraj	01 No.
11.	Computer (PC)	Acer/IBM	03 Nos
12.	Digital Phosphor Oscilloscope (TDS-3032B)	Techatronics	01 No.
13.	Ball-Plate Set-up	Feedback	01 No.