

Electronics Measurement and Control Laboratory

Lab Area: 100.05 Sq.m



The laboratory is well equipped with the necessary transducers and instrumentation trainers. This includes PT-100, RTD, thermocouple, thermistor, strain gauge, load cell, linear variable differential Transformer and proximity sensors. Application of signal conditioning circuits for above measurements are demonstrated to the students on bread board, such as current to voltage converter, bridge network, instrumentation amplifier and filters. Experiments related to D/A converter of type R/2R ladder network and binary weighted resistor n/w are carried out to show concepts used in IC based D/A converter. The control laboratory is well equipped with various experimental trainer units. The trainers include feedback components such as potentiometers and synchros, dc servomotor and ac servomotor trainer, linear system simulator, dc speed control system, dc position control system, temperature control system, PID controller trainer, light intensity control trainer, stepper motor control trainer, digital control trainer, compensator design setup, relay control system. The laboratory sessions are also supported by MATLAB and SIMULINK of Mathworks Corporation for analysis of control system. .