

# ANALOGUE AUTOMATIC CONTROL LABORATORY

## Laboratory Information

Lab Name: Automatic Control Laboratory

Room No.: 103 - Colleges of Engineering and Technology

Capacity: 20 students

In this laboratory students are introduced into the basic principles of industrial control applications. Using instrumentation and measurement equipment's; various areas of analogue automatic control are investigated such as pressure and flow, valve calibration and temperature control. The interfacing of analogue and digital circuit and control principles are also investigated such as computer control of motor speed and transient analysis of control systems using computer interface.

## Major Equipment

- Process Control Simulator
- Temperature Process Trainer T-3
- Pressure & Flow Process Trainer PF-2
- Level & Flow Trainer LF-1
- Computer Control Process Trainer
- Valve Calibration Trainer
- Analogue training System
- F.B. Modular Servo System
- Oscilloscopes
- Function Generators
- Programmable logic Controller "Siemens S-5 100U"
- Digital Multi-meters
- Air Compressors



**Laboratory Serves the following courses:**

Course Code	Course Title	Semester
EE 218	Instrumentation and Measurements	4 <sup>th</sup>
EE 417	Automatic Control Engineering	7 <sup>th</sup>