

PROCESS CONTROL LABORATORY

(DST - FIST SPONSORED LAB)



Faculty Incharge

Dr.Manamalli D, Professor

Dr.Vasanthi D, Associate Professor

Technical Staff

Mr.Devarajan S, Instructor



PROCESS CONTROL LABORATORY



**Reactor with
Smart Field
Devices**

The Department of Instrumentation Engineering, MIT Campus has a well-equipped Process control laboratory which is equipped with state of art facilities to understand the concept of modeling, optimization and control of processes which mimic the industrial scenario.

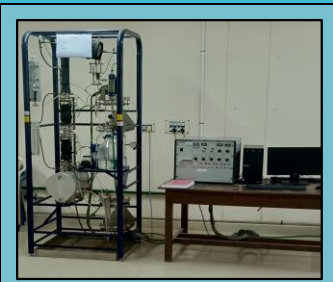
The students are trained to design conventional(PID, On-Off), advanced controllers like MPC, IMC and the designed controllers will be implemented on the real time test rigs and the performance of different controllers are analyzed for their optimal performance.

The test rigs are equipped with field devices which are enabled with HART and Foundation field bus protocols which are popularly used in process industries.

The students are also explored to understand different process symbols, Plot plans, Process flow Diagrams, Piping and Instrumentation Diagrams and loop diagrams with industrial standards.

The procedure for designing complex control schemes like cascade, Feed forward and adaptive controllers will be taught and they will be implemented on real time non-linear process test rigs.

PROCESS CONTROL LABORATORY



Distillation Column



Process Control Training Plant



Flow and Level Control Process



Pressure Control Process



Four Tank System



Bio- Reactor



PH Control Test Rig



Conical Tank System



Three Tank System



Two Tank System



Temperature Control Process with Transportation Lag