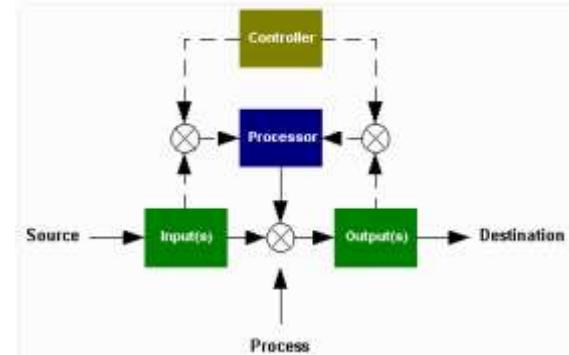


### Code – AETD1: Overview of Instrumentation & Control and Engineering

#### Module -A: Introduction to Instrumentation & Control

- A.1 Basic concepts in Instrumentation & control
- A.2 Definitions & Overview of Flow, Level, Pressure & Temp
- A.3 Primary Measurement
  - Flow (F) Engineering guide
  - Level (L) Engineering Guide
  - Pressure (P) Engineering Guide
  - Temperature (T) Engineering guide
- A.4 Secondary Measurement
- A.5 Final Measurement (Final Control Elements)
- A.6 Hazardous Area Classification (HAC)
- A.7 Control System
  - Programmable Logic Controller (PLC)
  - Supervisory Control and Data Acquisition (SCADA)
  - Distributed Control System (DCS)



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#### Module -B: Introduction to Engineering

- B.1 Engineering
  - Basic Engineering
  - Front End Design Engineering (FEED)
  - Detailed & Design (DD) Engineering
- B.2 Instrument Detail Engineering and its requirements
- B.3 Instrument Design deliverables

#### Module -C: Engineering Study and Case Study Examples

- C.1 Instrument & Control Engineering and Examples
- C.2 Case Studies
- C.3 FAQs
- C.4 Exercises
- C.5 Industrial Visits - Vendor Shops / Manufacturing Units (For Offline Course) / On-line Videos (For Online Course)

