



FACULTY OF ENGINEERING & TECHNOLOGY

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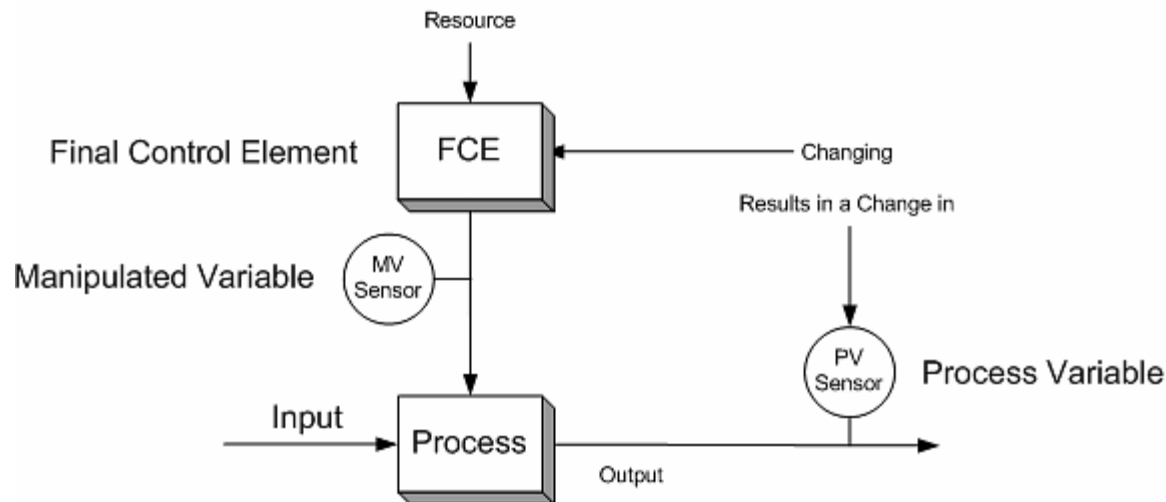
INTRODUCTION

Process Control:

Process control is the act of controlling a final control element to change the manipulated variable to maintain the process variable at a desired Set Point.

Definitions of some terms that are commonly used in process control

- The **manipulated variable (MV)** is a measure of resource being fed into the process, for instance how much thermal energy.
- A **final control element (FCE)** is the device that changes the value of the manipulated variable.
- The **controller output (CO)** is the signal from the controller to the final control element.
- The **process variable (PV)** is a measure of the process output that changes in response to changes in the manipulated variable.
- The **Set Point (SP)** is the value at which we wish to maintain the process variable.



Block diagram of a process with a final control element and sensors