



*Heaven's light is our guide*

# Rajshahi University of Engineering & Technology

**MTE 1101**

## **Mechatronic Systems**

Prepared By:

**Prangon Das**

Lecturer, Department of Mechatronics Engineering,  
Rajshahi University of Engineering & Technology.

# Outlines

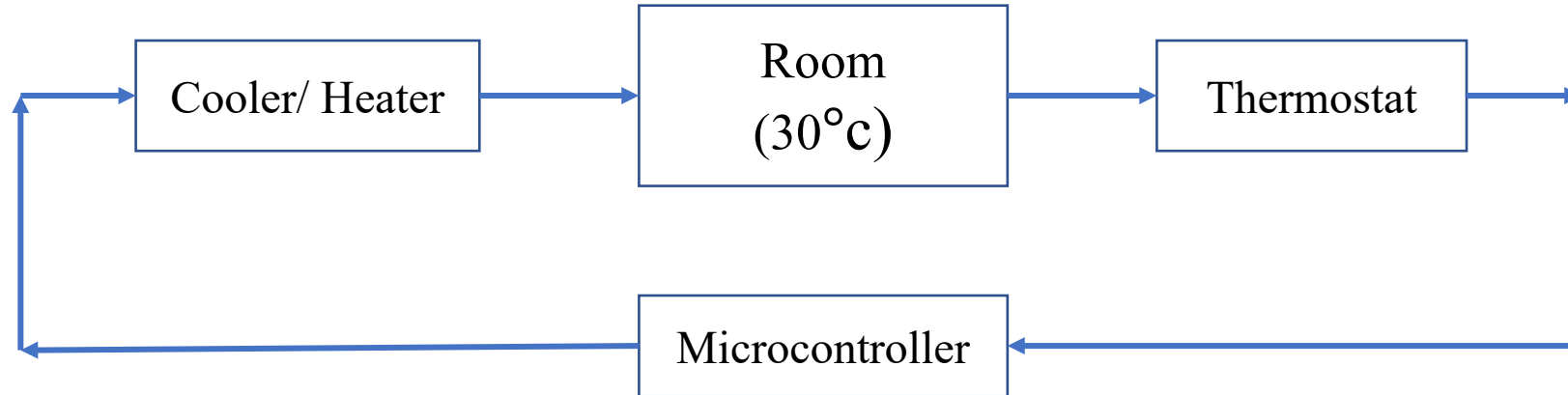


- Temperature Control System
- Human Comfort Zone
- Room Humidity Control System
- Human Body Humidity Control System
- Maglev Control System

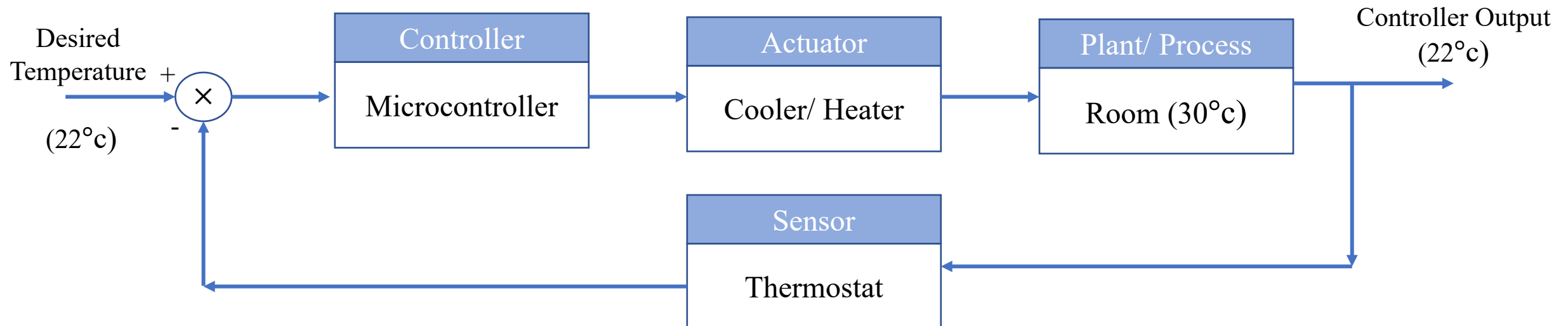
References: Slide, **Internet**, Recommended Books (Rajput/Bolton: **Chapter 1**)

# Temperature Control System

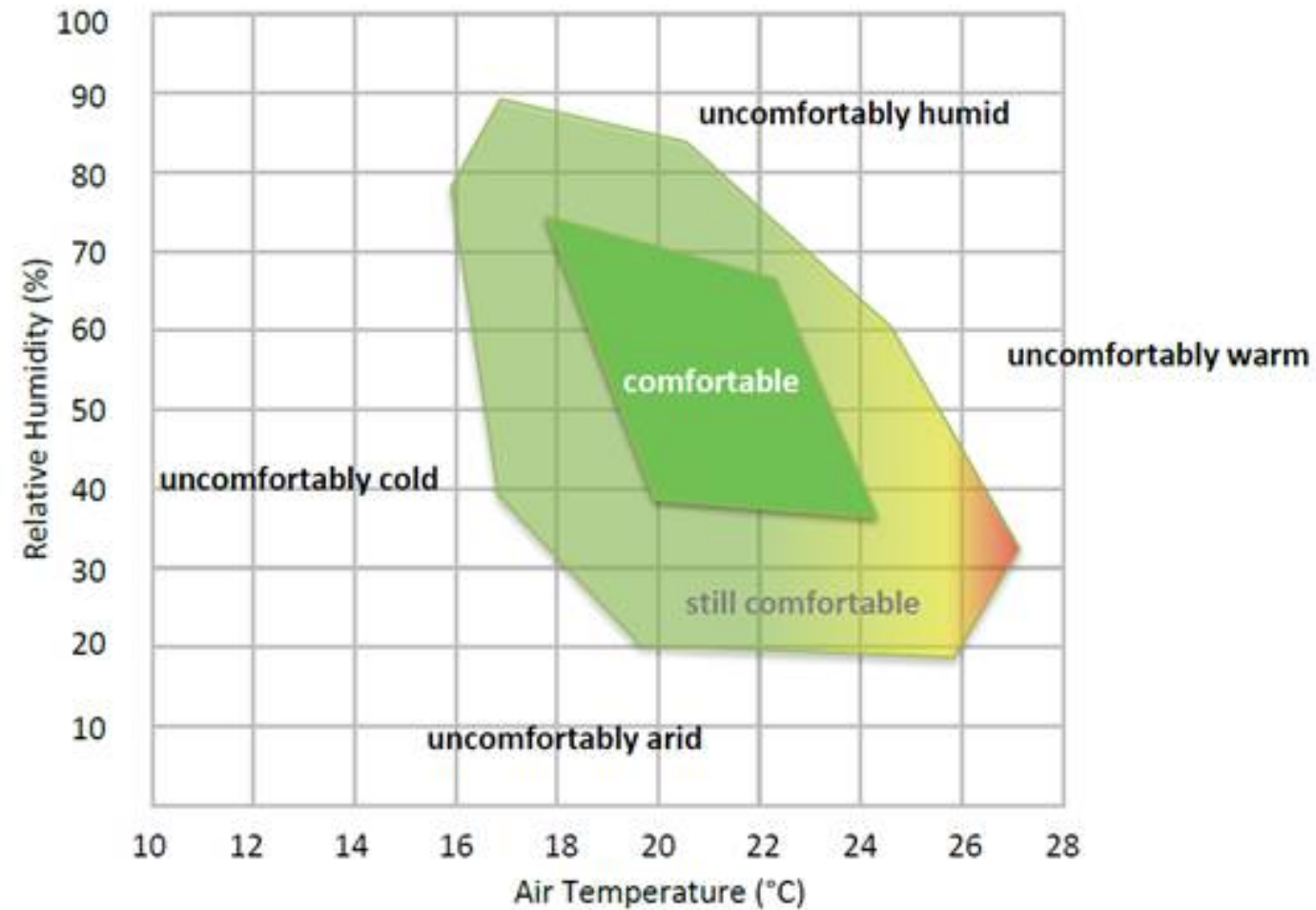
**Physical system:**



**Block Diagram Representation:**

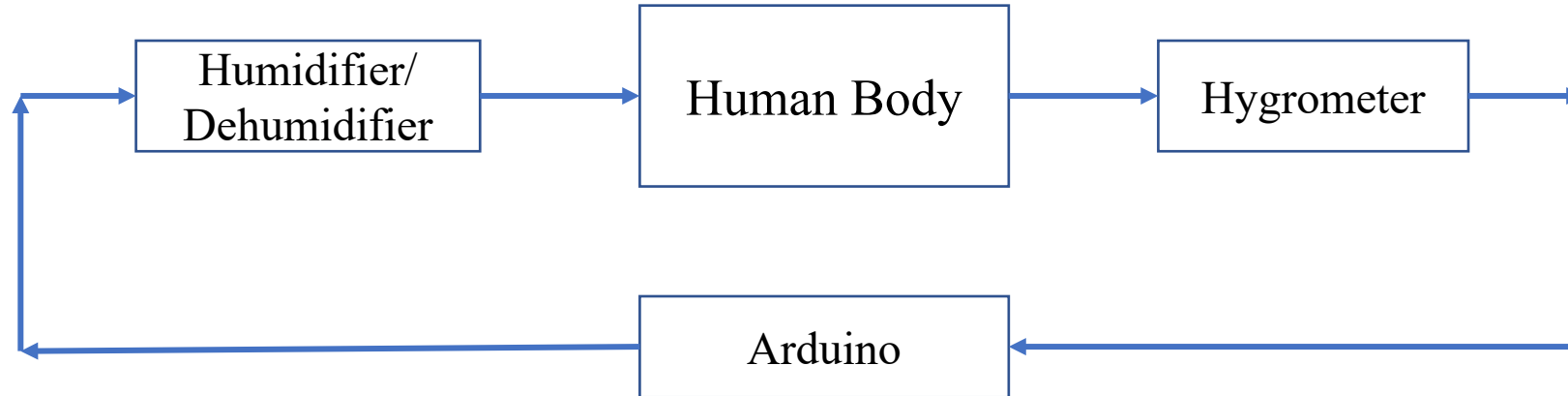


# Human Comfort Zone

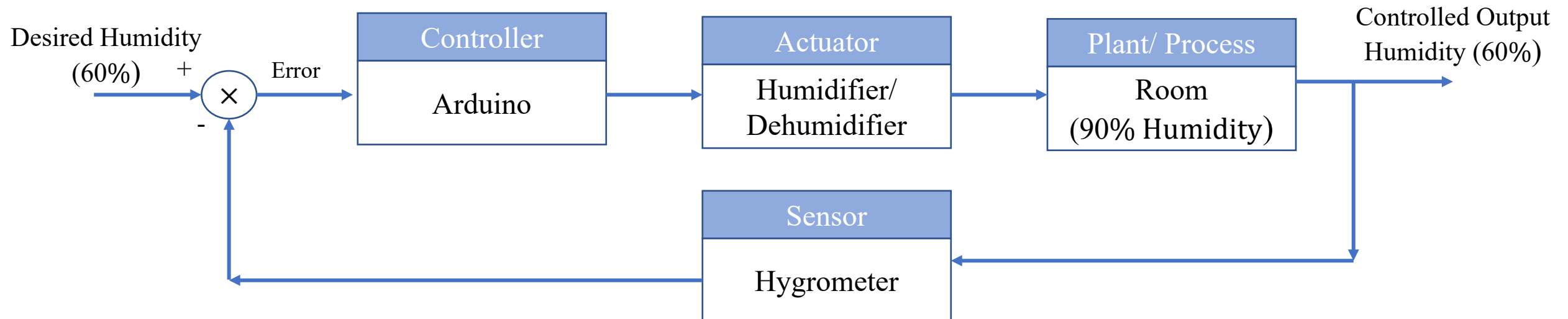


# Room Humidity Control System

**Physical system:**

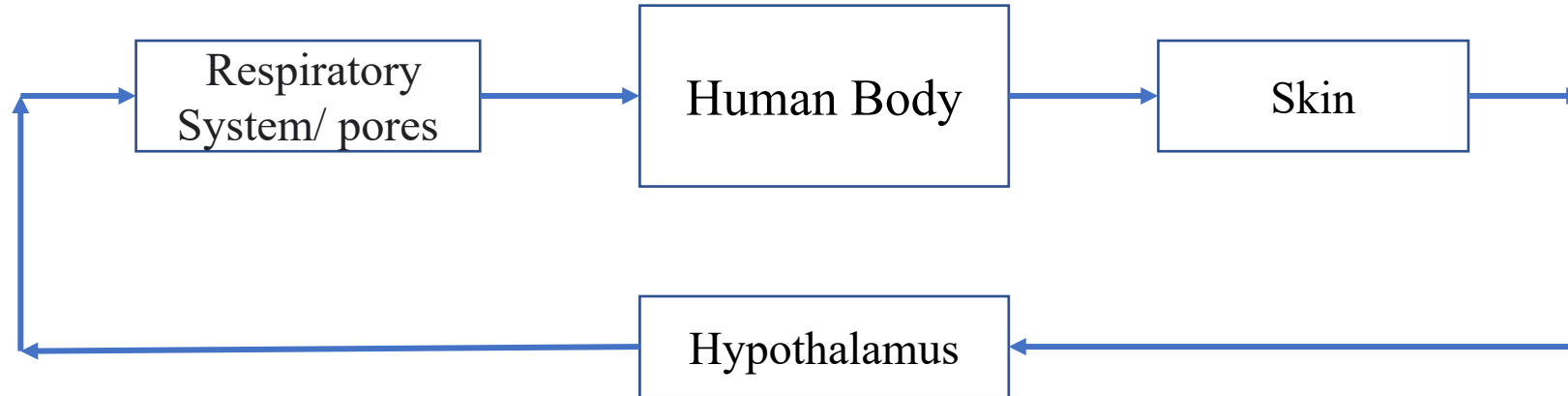


**Block Diagram Representation:**

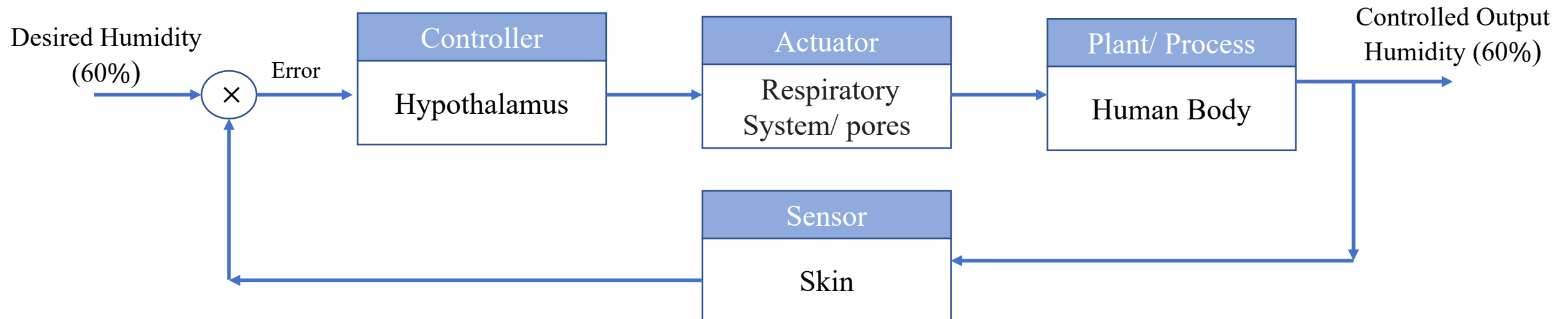


# Human Body Humidity Control System

**Physical system:**

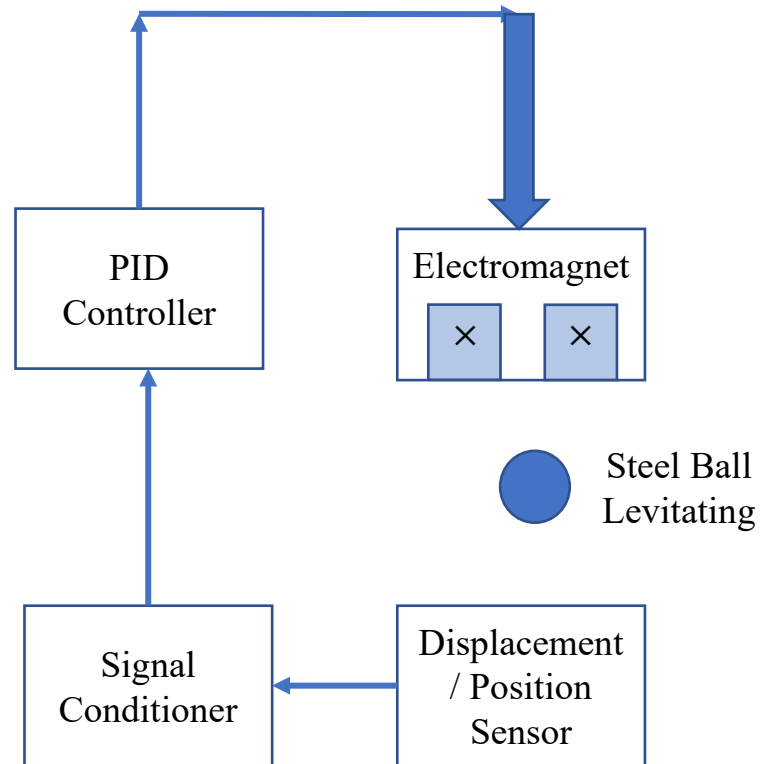


**Block Diagram Representation:**

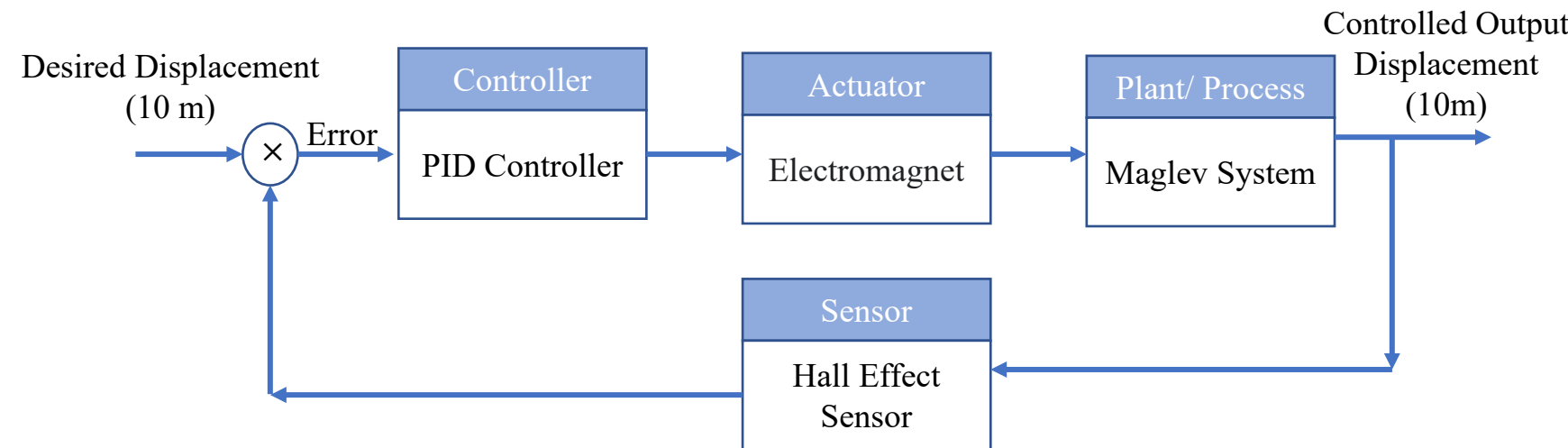


# Maglev Control System

**Physical system:**



**Block Diagram Representation:**



[Low-cost magnetic levitation project kits for teaching feedback \(studylib.net\)](http://studylib.net)

# Maglev Control System (Cont.)



[\(5\) How do maglev trains work? - YouTube](#)

[\(5\) Magnetically levitating trains - YouTube](#)



**To Be Continued.....**

THANK YOU