

Centralized Control Systems

Control System

7.1.1 Discuss a range of control systems.

1. Choose two of the control systems listed and describe how each one utilizes sensors, controllers, and control elements.

7.1.2 Outline the uses of microprocessors and sensor input in control systems.

2. Outline the uses of microprocessors and sensor input in control systems.
3. What is an Analog to Digital Converter (ADC)?

7.1.3 Evaluate different input devices for the collection of data in specified situations.

4. Evaluate two of the input devices listed in terms of their ability to collect data.

7.1.4 Explain the relationship between a sensor, the processor and an output transducer.

5. Explain the relationship between a sensor, the processor and an output transducer.

7.1.5 Describe the role of feedback in a control system.

6. Describe the role of feedback in a control system.

7.1.6 Discuss the social impacts and ethical considerations associated with the use of embedded systems.

7. Discuss two social impacts or ethical considerations associated with the use of embedded systems.

Distributed System

7.1.7 Compare a centrally controlled system with a distributed system.

8. Compare a centrally controlled system with a distributed system.

7.1.8 Outline the role of autonomous agents acting within a larger system.

9. Outline the role of autonomous agents acting within a larger system.