

Systems and Control Module

for junior form Technology Education curriculum

Summary of the Learning Outcomes

Context	Learning Outcomes
Basic Concept	Most students should: <ul style="list-style-type: none">▶ identify common systems in their home and school environments that serve particular purposes;▶ indicate the parts of a system using a real life example;▶ state the differences between open-loop and close-loop system. Some students could: <ul style="list-style-type: none">▶ Carry out extensive research to identify complex systems.
Types of Control System	Most students should: <ul style="list-style-type: none">▶ describe and represent graphically different types of control systems and the devices that control them;▶ describe a sequence of steps to control a device;▶ experience the use of control devices that sense, switch, and regulate; Some students could: <ul style="list-style-type: none">▶ build models of simulated control systems using electronic, electric, mechanical, and pneumatic parts.
Application of System	Most students should: <ul style="list-style-type: none">▶ investigate and analysis a technological problem which is related to control system;▶ design and construct a simple control system that senses, switches, or regulates;▶ compare ways that various control devices work, and explain their applications; Some students could: <ul style="list-style-type: none">▶ integrate electric, electronic, pneumatic, and mechanical control devices within a system.
Control and Automation	<ul style="list-style-type: none">▶ perform a case study in the area of production of modern products focusing on Computer Aided Manufacturing (CAM) or automation.