

# Ninevah University

## جامعة نينوى



*First Cycle – Bachelor's degree (B.Sc.) – Systems and Control Engineering*

بكالوريوس علوم - هندسة النظم والسيطرة



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### 1. Learning Outcomes

The major goal of the Control Systems course is to develop a specific technical expertise in the analysis and design of Feedback Control Systems. Understanding the ability to recognize and analysis feedback control mechanisms and design feedback control systems is the key learning outcomes; the principle of feedback is a universal principle behind many processes and devices encountered in Electrical/Computer Engineering as well as physics, chemical, and mechanical engineering, biology, etc.

By the end of the course, students will be able to describe feedback control systems in mathematical terms of different equations, transfer functions and state-space models, if the time helped us, and will be able to analyze whether a given control system is stable or not and what needs to be done to make it stable (analysis), how this can should be done (synthesis) and how your solution will affect the system performance (evaluation).

After completing the course, students should have confidence in solving any problems in the area of control systems within the scope set by the lecturer. mastering control systems design tools such as MATLAB and Simulink are one of the practical outcomes to mention. Students will demonstrate their achievements in the course by attempting and solving homework exercises, and completing labs and the design project, if it will be assigned.

#### Outcome 1

Students will become the automation and control engineers with good basic knowledge, both in theory and in experiments.

#### Outcome 2

Students master the methodology for conducting research, have critical thinking and creativity; have ability of self-learning and studying automatic control at graduate level.

### **Outcome 3**

Students are able to design, implement, operate the control systems; manage, consult, and provide technical support on automatic control products and projects.

### **Outcome 4**

Students have ability to work independently as well as together in groups in high pressure environment; ability to develop and integrate in high quality job market; ability to use English efficiently to work in international enterprises and organizations.

### **Outcome 5**

Students are trained to be automation and control engineers with good specialized knowledge as well as good health and professional ethics.

### **Outcome 6**

#### *Critical Thinking*

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

## **2. Contact**

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