

## Learning Guide Unit 1

**Overview****UNIT 1: Introduction to Digital Design****Topics:**

- Overview of digital design and its applications
- [Boolean algebra](#) and [logic gates](#)
- Install and use the operation of Logisim simulator

**Learning Objectives:**

By the end of this Unit, you will be able to:

- Explain about basic logic gates.
- Apply Boolean algebra and logic gates to construct [digital circuits](#).

**Tasks:**

- Read the Learning Guide and the Reading Assignment
- Complete the Discussion Assignment by posting in the [Discussion Forum](#)
- Respond to two of your fellow classmates' posts in the Discussion Forum
- Read 'Download and Install Software' and install the needed application
- Complete and submit the Assignment Activity
- Take and submit the Self-Quiz

