

Learning Guide Unit 4

Overview**UNIT 4: Computer Arithmetic****Topics**

- Number systems
- [Binary Representation & arithmetic operations](#)
- [Adders and subtractors](#)
- [Multipliers and dividers](#)
- [ALU \(Arithmetic Logic Unit\)](#)
- [ALU Design](#)

Learning Objectives

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

- Identify different number systems and perform [arithmetic operations](#).
- Demonstrate an understanding of principles of [adders](#), [subtractors](#), [multipliers](#) and dividers.
- Explain the implementation and design of [adders](#), [subtractors](#), [multipliers](#), and dividers to perform [mathematical operations](#).

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
- Complete and submit the Assignment Activity
- Take and submit the Self-Quiz

