

# Module Glossary

This module covers the following topics.

# Module Glossary

- What is an ALU?
- Functionality of a simple ALU
- ALU design
  - Functionality
  - Mode of Operations
    - Serial
    - Parallel
    - Modular
- Design of a simple ALU
- Arithmetic algorithms
  - Comparison of unsigned numbers
  - Addition/subtraction
  - Multiplication
    - Booth's algorithm
  - Division
    - Restoring
    - Non-restoring
    - Direct comparison
- Overflow/Divide overflow
- Floating point numbers
  - Addition/subtraction
  - Multiplication
  - Division