# 1.1 Learning Objectives

After completing this module, students are expected to be able to:

- Understand how to effectively read and interpret integrated circuit (IC) datasheets, including key specifications, pin configurations, and operational parameters.
- Understand the fundamental working principles of various Integrated Circuits (ICs), their internal architectures, and common applications in electronic systems.
- Understand the function and proper usage of breadboards for prototyping electronic circuits, including best practices for component placement and wiring.

**What Will We Learn?**

Welcome to the world of electronics! This first module will serve as your foundational step into the practical aspects of designing and building circuits.

We will begin by focusing on the essential skills required for any electronics project. You will learn the critical process of reading and understanding component specifications through datasheets, explore the function and inner workings of Integrated Circuits (ICs), and master the use of breadboards for hands-on prototyping and experimentation. This module will provide you with the solid groundwork needed for more advanced topics to come.

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