

Module 18

Everyday Electronics



What this module is about

What are the technologies have made our life easier and more comfortable? Cellular phones, computers, television sets, sensors and cameras, robots and full-featured automobiles are among them. Looking back four or five decades ago, when these gadgets did not exist yet or when these gadgets were not as good as they are now, we can't help but wonder what brilliant ideas have ushered us from a primitive, obsolete ways of living to a world of sophistication. It is even more surprising to know that behind the wonders of these emerging technologies is just a simple "thing" we've learned previously. Do you know that these huge advancements are caused by the very small particle called the electron? It is through the world of electronics, meaning control of flow of electrons, that these devices are made possible. This module gives us a slice of the huge, complicated world of electronics in the following lessons:

- Lesson 1 - History and Development of Electronics
- Lesson 2 - Active and Passive Electronic Components
- Lesson 3 - Integrated Circuits
- Lesson 4 - Electronic Systems
- Lesson 5 - Applications of Electronics



What you are expected to learn

At the end of this module, you should be able to:

1. trace the history and development of electronics;
2. classify electronic components as active or passive;
3. interpret the color codes of common electronic elements;
4. identify the components of electronic systems; and
5. cite applications of electronics in different fields.

Science Module 18 Everyday Electronics

Shasha Hu



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