

# **Learning Outcomes of the Information Technology Department**

Graduates of the Information Technology Department are expected to achieve a set of educational outcomes, including:

1. Acquiring comprehensive knowledge of the fundamentals of Information Technology, including programming, databases, networks, and information security.
2. Mastering the use of several modern programming languages such as Java, Python, and C++, and applying them in software and computer application development.
3. Developing the ability to analyze data and information using modern tools and techniques to extract useful results.
4. Enhancing skills in solving complex technical problems through the application of critical thinking and logical analysis.
5. Possessing communication and teamwork skills that enable effective collaboration within multidisciplinary teams.
6. Promoting the concept of continuous learning and self-development to keep pace with the rapid advancements in the field of Information Technology.

## **Detailed Learning Outcomes**

### **Technical Knowledge**

Students should acquire comprehensive knowledge of the fundamentals of Information Technology, including programming, databases, networks, and information security.

### **Programming Skills**

Students should be able to write and develop software using multiple programming languages such as Python, Java, and C++.

### **Data Analysis**

Students should be able to analyze data and use various analytical tools to extract valuable information.

### **Problem Solving**

Students should be capable of applying critical thinking to solve complex technical problems.

## **Effective Communication**

Students should possess strong communication skills, both verbal and written, to enable them to work effectively within multidisciplinary teams.