



Learning Outcomes for the College of Science (Information Technology)

The learning outcomes at the College of Computer Science and Information Technology aim to define the advanced knowledge, technical skills, and professional competencies acquired by students upon completing their study programs in modern specialized departments. This initiative seeks to prepare innovative, technically qualified graduates capable of bridging the digital divide in the labor market, actively contributing to digital transformation, and safeguarding societal infrastructure.

(Learning Outcomes for the Information Technology (IT) Department)

Graduates of the Information Technology Department are expected to achieve a set of learning outcomes, most notably:

- 1) Acquire comprehensive knowledge of information technology fundamentals, including programming, databases, networking, and information security.
- 2) Master the use of modern programming languages (such as C++, Python, and Java) and computer applications for software development.
- 3) Develop the ability to analyze data and information using modern tools and techniques to derive meaningful insights.
- 4) Cultivate skills for solving complex technical problems by employing critical thinking and logical analysis.
- 5) Possess communication and teamwork skills that enable effective collaboration within multidisciplinary teams.
- 6) Foster a commitment to continuous learning and self-development to keep pace with rapid advancements in the field of information technology.

Breakdown of learning outcomes:

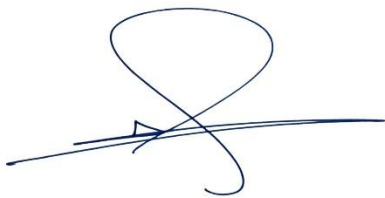
Technical Knowledge: Students must acquire comprehensive knowledge of information technology fundamentals, including programming, databases, networking, and information security.

Programming Skills: Students must be able to write and develop software using various programming languages, such as C++, Python, and Java.

Data Analysis: Students must be able to analyze data and utilize various analytical tools to extract valuable insights.

Problem-Solving: Students must be able to apply critical thinking to solve complex technical problems.

Effective Communication: Students must possess strong communication skills—both verbal and written—to enable them to work within multidisciplinary teams.



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