



Learning Outcomes for the College of Computer Science and Information Technology (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 that students acquire 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 Java, C++, and Python for software development, and utilize various modern programming languages and computer applications.
- 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.

Detailed Learning Outcomes:

1. Knowledge and Understanding:

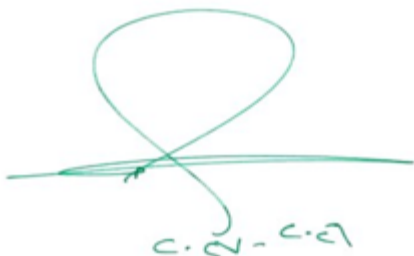
The student acquires comprehensive knowledge and understanding of the concepts and theoretical foundations of computer science and information technology including programming, databases, computer networks, information security, and the principles of artificial intelligence and data analysis along with the ability to understand modern technologies and their applications in various work environments.

2. Skills and Capabilities:

The student is able to design and develop solutions and software using various programming languages such as C++, Python, and Java analyze data to extract valuable insights, and apply appropriate algorithms and computational methods, in addition to the ability to analyze complex technical problems and develop effective, innovative solutions for them.

3. Project Management and Governance:

The student will be able to apply IT project management principles including planning, execution, monitoring, and resource and risk management while understanding digital governance and information security, and adhering to professional and legal standards and policies relevant to information technology.



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Approval by the Dean of the College