



Learning Outcomes of the College of Computer Science and Information Technology (Artificial Intelligence)

The learning outcomes in the College of Computer Science and Information Technology aim to define the advanced knowledge, technical skills, and professional competencies that students acquire after completing their academic programs in modern specialized departments. This aims to prepare innovative and technically qualified graduates to bridge the digital gap in the labor market and contribute effectively to digital transformation and the protection of society's infrastructure.

1. Learning Outcomes for the Department of Artificial Intelligence (AI)

Graduates of the Artificial Intelligence department are expected to achieve a set of learning outcomes, most notably:

- **Foundational Knowledge:** Acquiring a deep understanding of AI mathematics, algorithms, and advanced data structures.
- **Developing Smart Models:** Proficiency in building and training Machine Learning (ML) and Deep Learning (DL) models using languages such as Python.
- **Natural Language Processing and Computer Vision:** The ability to develop software systems capable of understanding human languages and analyzing images and visual patterns.
- **Complex Problem Solving:** Designing innovative solutions for problems that require human-like simulated thinking and data-driven decision-making.
- **Handling Big Data:** Possessing technical skills to manage and analyze Big Data sets to extract patterns and predictions.
- **Ethics and Responsibility:** Commitment to ethical standards in developing AI technologies and ensuring the absence of bias in algorithms.

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Dean's approval

