

AI Applications and Academic Efficiency: A Study of Second-Year BSICT Students

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Abstract: *This study examined the effect of artificial intelligence (AI) applications on the efficiency of second-year students enrolled in the Bachelor of Science in Information and Communications Technology (BSICT) program. As AI tools were becoming increasingly integrated into educational settings, their impact on student productivity, learning retention, and engagement warranted investigation. The research employed a quantitative descriptive-correlational design, using a structured survey to gather data from 92 students. The study focused on three key areas: code completion, code debugging, and task automation. Results showed that students perceived AI tools as significantly helpful in enhancing coding speed, reducing manual workload, and improving overall academic performance. However, findings also indicated a potential risk of over-reliance on these tools, which could affect the development of critical thinking and problem-solving skills. The study concluded that AI applications can serve as valuable educational aids when integrated thoughtfully, supporting both learning efficiency and skill development. Recommendations included guided usage strategies for students and educators to ensure balanced learning.*

Keywords: Artificial Intelligence, Coding Education, Learning Retention, Programming Tools.

