

Artificial Intelligence in Higher Education: Implications for Academic and Administrative Efficiency

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Abstract

The rapid integration of Artificial Intelligence (AI) technology has revolutionized multiple sectors, including higher education, utilizing it in almost daily with its impact encompassing both academic and administrative operations. This study was conducted to measure the impact of AI adoption on institutional efficiency, focusing on how institutions employ AI-driven technologies in John Paul College in optimizing the operational procedures, elevating learning outcomes, and refining decision-making. The objective of the study is to comprehend the perceived advantages, challenges, and preparedness of John Paul College in embracing AI advancements in its academic and administrative operations. A qualitative research design was utilized, including document analysis and semi-structured interviews as the methods of data gathering. For document analysis, relevant scholarly articles, policy documents, and institutional reports were examined to determine existing frameworks and trends in AI integration to the operational process of the organization. In addition, interviews were held with university administrators, faculty, and IT staff to obtain insights on current practices, experiences, and institutional viewpoints as related to the objectives of the study. The findings indicate that AI markedly enhances operational efficiency by automating administrative functions, including enrollment management, scheduling, and data analysis. AI academically improves education via individualized learning systems, intelligent tutoring, and performance statistics. The results also identify significant challenges, such as inadequate digital infrastructure, data privacy issues, reluctance to change, and the necessity for staff training. As contrary to the positive impact on the advancement of the academic and administrative operational processes, discussions highlight that although AI can significantly improve efficiency, its effective application relies on strategic planning, ethical frameworks, and institutional backing. The research demonstrates that AI serves as a catalyst for innovation and efficiency in higher education, dependent on universities implementing a balanced approach that integrates technology with human oversight and academic principles. Future proposals include the development of AI literacy programs for educators and the creation of institutional rules that promote ethical AI use.

Keywords: Artificial Intelligence, Higher Education, Academic Efficiency, Administrative Efficiency, Digital Transformation, Educational Technology, University Management