



Digital Education Management in Improving the Quality of Technology-Based Learning

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ABSTRACT

Objective: This study aims to explore the role of digital education management in improving the quality of technology-based learning. Specifically, it examines how educational leadership, managerial practices, and stakeholder engagement influence the integration and effectiveness of digital tools in educational settings. **Method:** A qualitative literature review was conducted using library research, synthesizing findings from academic sources published between 2019 and 2025. The study analyzed key themes, including barriers to technology integration, the impact of managerial practices, and the role of stakeholder involvement in digital education management. **Results:** The study found that educational leadership plays a pivotal role in digital transformation by providing strategic direction and fostering collaborative decision-making. Key barriers to effective integration included resistance to change, lack of digital literacy, and infrastructure limitations. Additionally, professional development for educators and active stakeholder engagement were identified as critical factors for the success of technology-based learning. The study also highlighted the positive effects of personalized learning and increased accessibility facilitated by digital tools. **Novelty:** This study contributes to the understanding of digital education management by emphasizing the interconnected roles of leadership, resource management, and community involvement in successfully integrating technology into education. The research also offers insights into overcoming barriers and suggests future directions for sustainable digital education practices and innovative teacher training models.

INTRODUCTION

In an era of rapid technological advancements, digital tools have become an essential part of the education system, shifting traditional models to technology-integrated learning environments (Zou et al., 2025). Digital education management refers to the strategic deployment and management of digital technologies in education, encompassing planning, implementation, and ongoing evaluation to improve educational outcomes (Ilyas et al., 2025). As educational systems across the world increasingly embrace digital learning, the role of effective management of digital education has become critical in determining the quality of technology-based learning environments.

However, while the benefits of technology-based learning such as increased engagement, accessibility, and personalised learning are well documented, little is understood about how digital education management can systematically improve these outcomes (Gunawan et al., 2024). Previous studies on digital education have highlighted its potential but often overlook how strategic management practices and institutional leadership can shape the success of digital initiatives in improving educational quality (Hidayat & Nur, 2024; Mariatul, 2025). The research gap exists in the intersection of education management practices and the tangible impact on student learning experiences in digital environments. This indicates a lack of comprehensive understanding regarding how managerial dimensions of digital education contribute to measurable improvements

in learning quality. As such, there is a need for qualitative research to understand how educational leaders make decisions, manage digital resources, and involve stakeholders in the continuous improvement of technology-mediated learning (Arum, 2023).

This study is motivated by the growing need for educational institutions to effectively manage digital tools, such as Learning Management Systems (LMS), to foster optimal learning experiences (Ilyas et al., 2025). Despite significant investments in digital technologies, many educational institutions struggle to implement coherent strategies that align technology with educational goals and improve student outcomes (Baruno & Padama, 2024). In this context, digital education management not only refers to technology adoption but to the broader process of organisational leadership, policy development, and educator training that enable technology to enhance educational quality (Garbin Praničević et al., 2018).

Moreover, this study fills a critical gap in existing literature by focusing specifically on the managerial dimensions of digital education, examining how leadership decisions, planning, and resource allocation directly contribute to improved learning quality in digital contexts. While previous studies have focused on technological aspects of digital education, there is limited research on how educational managers influence the integration and impact of technology on teaching and learning outcomes (Mariatul, 2025). Therefore, this study offers a conceptual contribution by synthesising existing literature to clarify the relationships between leadership, managerial practices, and the effectiveness of technology-based learning. This paper seeks to address these gaps by investigating the practicalities and challenges of digital education management from a qualitative perspective, offering insights that can help guide policy and practice.

In line with the literature review approach employed in this study, the researcher's role is positioned as an analytical interpreter of existing scholarly works rather than an active participant in field settings. This approach enables a systematic and critical synthesis of prior research on digital education management, allowing for a conceptual understanding of institutional dynamics, leadership practices, and stakeholder involvement as reported in the literature.

This study draws from a theoretical perspective of organisational leadership, specifically applying Change Management Theory to understand how educational leaders implement digital transformations (Lewin, 1947). Change management frameworks offer valuable insights into how technological changes are managed within organisations, allowing for a structured approach to investigating the integration of technology in education management.

Furthermore, Change Management Theory provides a useful lens for understanding how educational institutions navigate the transition from traditional learning environments to digitally integrated systems. Through processes of planning, stakeholder engagement, capacity building, and continuous evaluation, educational leaders can facilitate the successful adoption of digital technologies while minimizing resistance to change. This theoretical perspective is particularly relevant in the context of digital education management, where organisational readiness and leadership commitment play a crucial role in achieving sustainable technology-enhanced learning outcomes.

The objective of this research is to examine how digital education management influences the quality of technology-based learning by analysing managerial practices, institutional policies, and stakeholder perspectives. The research aims to explore how

educational leaders manage the implementation and integration of digital technologies to enhance the quality of technology-based learning environments. Specifically, it will investigate the strategies and processes through which educational institutions adopt and embed digital tools such as Learning Management Systems (LMS) and other technology platforms in their teaching practices. Additionally, the study seeks to identify the challenges and barriers that institutions encounter when attempting to manage digital education effectively, such as resource limitations, resistance to change, and issues related to digital literacy among educators and students. Furthermore, the research will examine how different managerial practices and leadership styles influence the success of technology-mediated learning environments, exploring how leadership decisions, organizational culture, and stakeholder engagement contribute to or hinder the integration and sustainability of digital education initiatives.

RESEARCH METHOD

This study employs a qualitative research design with a literature review approach, which is appropriate for exploring and synthesizing complex educational phenomena through existing scholarly evidence and theoretical insights (Annasthasya et al., 2025). Qualitative research is fundamentally concerned with understanding meanings, experiences, and social phenomena from textual or descriptive data rather than numerical measurements, allowing researchers to capture rich contextualised insights into educational processes (Hamilton & Finley, 2019; Usman et al., 2025). In this study, the literature review functions as the primary research strategy, systematically identifying, evaluating, categorising, and synthesising relevant academic sources that focus on digital education management and technology-based learning quality. A literature review method is widely recognised as an established approach in qualitative research, particularly when the aim is to map existing scholarly discussions, reveal conceptual relationships, and identify research gaps in complex domains such as educational technology management (Annasthasya et al., 2025; Febrianto & Siroj, 2024).

The source of data consists of academic publications from peer-reviewed journals, books, doctoral dissertations, conference proceedings, and other credible academic repositories such as Scopus, Google Scholar, ResearchGate, and Web of Science. Criteria for inclusion were that the sources should be published within the last five years (2019–2025) to ensure the currency and relevance of the findings, address digital education or educational management, and employ qualitative or theoretical analysis consistent with the aims of this review. This inclusion strategy aligns with standard practices for rigorous literature studies, which emphasise the selection of high-quality and pertinent scholarly evidence to support thematic analysis (Febrianto & Siroj, 2024; Ferdiansah, 2025).

Data collection techniques in this study involved systematic search processes guided by keywords related to digital education, educational management, technology-enhanced learning, qualitative analysis, and literature review methodology. Search strings were constructed to maximise retrieval of relevant articles across multiple databases, and titles, abstracts, and full texts were screened against the inclusion criteria. After initial screening, relevant literature was catalogued and organised according to thematic relevance to the research questions. Literature review as a qualitative data source allows for the synthesis of multiple perspectives, patterns, and themes emerging from existing research without engaging human participants directly; this aligns with the

definition of qualitative study design as one that generates descriptive conceptual data rather than numerical measurement (Annasthasya et al., 2025; Ferdiansah, 2025).

For data analysis, this study applies a thematic analysis framework, which is widely used in qualitative research to systematically interpret and extract meaningful patterns from textual data (Annasthasya et al., 2025). Thematic analysis in a literature review comprises iterative reading, coding, organising, and synthesising of concepts, followed by the development of themes that address the objectives and research questions of the study. The main steps included identifying recurring concepts related to digital education management practices, comparing and contrasting theoretical frameworks and empirical findings, and interpreting patterns that explain how managerial practices influence the quality of technology-based learning. This analytical approach ensures that the study captures nuanced insights and supports conceptual integration across diverse sources (Annasthasya et al., 2025; Ferdiansah, 2025). The systematic and transparent nature of literature-based thematic analysis is crucial for ensuring rigour and reproducibility in qualitative research, enabling other researchers to trace the derivation of analytical outcomes (Febrianto & Siroj, 2024).

RESULTS AND DISCUSSION

Results

The results of this study, based on a comprehensive review of the literature, reveal several key findings regarding the impact of digital education management on the quality of technology-based learning. The key themes identified from the analysis are the role of educational leadership, the barriers to integration, the importance of managerial practices, stakeholder engagement, and the impact of technology on learning outcomes. These findings are summarized and discussed in detail below.

Educational Leadership in Digital Education Management

A significant finding of this literature review is the pivotal role of educational leadership in the successful integration of digital technologies in learning environments. Educational leaders who adopt a clear strategic vision and a proactive commitment to digital transformation are more likely to successfully implement technology into teaching and administrative processes. These leaders engage in collaborative decision-making, fostering an environment where educators feel supported and confident in utilizing digital tools (Ilyas et al., 2025). The literature consistently reports that leadership practices incorporating data analytics and Learning Management Systems (LMS) are associated with improved decision-making processes and enhanced student engagement (Gonugunta & Leo, 2024).

Barriers to Effective Digital Education Integration

The review also identified several barriers hindering the effective integration of digital technologies. Resistance to change among educators, primarily due to lack of digital literacy and a fear of obsolescence, was highlighted as a primary barrier. Many educators struggle to incorporate new technologies into their teaching due to inadequate training and familiarity with digital tools (Arum, 2023). Additionally, infrastructure deficiencies such as limited internet access, outdated hardware, and insufficient technical support were found to be significant challenges, particularly in remote or underdeveloped regions (Ilyas et al., 2025). Moreover, financial constraints were identified as a recurring

challenge, with institutions facing difficulties in allocating sufficient funds for technology purchase, maintenance, and educator training (Gunawan et al., 2024).

These findings provide practical implications for educational managers by highlighting the need for strategic investment planning, infrastructure development, and sustainable funding mechanisms. Educational leaders should prioritize resource allocation toward improving digital infrastructure and expanding professional development opportunities to reduce barriers that hinder effective technology integration. Furthermore, collaboration with government agencies, private sector partners, and local communities may help institutions address financial limitations and ensure equitable access to digital learning resources.

Impact of Managerial Practices on Learning Quality

The results also demonstrate the crucial role of managerial practices in shaping the quality of technology-mediated learning. Effective resource allocation, including financial and human resources, was found to be a key determinant of successful technology integration. Educational institutions that efficiently allocate resources towards technology adoption and support structures are more likely to experience improvements in student learning outcomes and teacher engagement (Arum, 2023). Furthermore, continuous teacher professional development emerged as a critical factor. Schools and universities that provide ongoing training for educators on both technological tools and pedagogical practices experience greater success in utilizing digital tools effectively in the classroom (Gunawan et al., 2024).

Stakeholder Engagement in Digital Education

Another key finding from the literature is the importance of stakeholder engagement in the successful management of digital education. The literature suggests that when stakeholders—such as educators, students, parents, and policymakers—are actively engaged in the decision-making process, digital tools are better aligned with the needs of the educational community. This collaborative approach ensures that technology adoption is more successful and sustainable (Ilyas et al., 2025). Active feedback loops involving students and parents help to continuously improve the technology-based learning experience by identifying challenges and adapting strategies to meet evolving needs (Safitri, 2025).

Impact of Technology on Learning Quality

Finally, the study found that technology-based learning has a positive impact on learning quality when properly managed. Personalized learning opportunities, made possible through tools such as adaptive learning systems, were found to significantly enhance student engagement and academic performance. These tools allow for tailored learning experiences that adapt to individual student needs, providing real-time feedback and support (John, 2025). Moreover, technology improves accessibility for students, particularly for those in remote or underserved areas. By enabling distance learning and asynchronous learning, digital platforms provide flexible learning opportunities that ensure greater inclusivity (Ilyas et al., 2025).

Table 1. Key Findings from the Literature Review

Key Theme	Findings	Supporting Research
Leadership in Digital Education	Educational leaders with a clear vision and proactive approach foster better technology integration.	Gunawan (2024), Ilyas et al. (2025)
Barriers to Integration	Resistance to change and inadequate infrastructure hinder effective digital education.	Arum (2023)
Professional Development	Ongoing teacher training enhances the use of technology in the classroom.	Gunawan (2024), Hidayat & Nur, (2024)
Resource Allocation	Institutions with sufficient resources experience more success in digital education integration.	Arum (2023), Mariatul (2025)
Stakeholder Engagement	Active stakeholder collaboration ensures alignment between educational technology and user needs.	Ilyas et al. (2025)

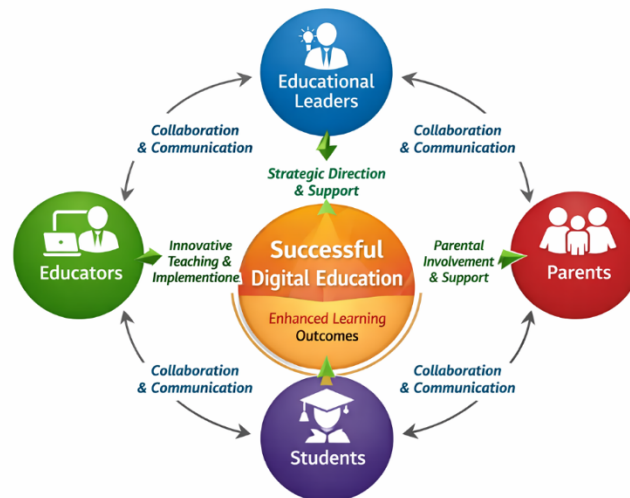


Figure 1. Stakeholder Engagement in Digital Education

Discussion

The findings of this study underscore the crucial role of educational leadership in the effective integration of digital tools into educational systems. Educational leaders who demonstrate a proactive and strategic vision for digital transformation are better positioned to foster an environment in which technology is embraced by both educators and students. This finding aligns with the Technology Acceptance Model (TAM) (Davis, 1989), which highlights the importance of perceived usefulness and ease of use in the adoption of new technologies. By leading the charge in data-driven decision-making and leveraging tools like Learning Management Systems (LMS), educational leaders can not only streamline administrative tasks but also enhance student engagement and academic performance, as suggested by Gonugunta & Leo (2024).

However, despite the promising potential of digital tools, the study highlights several persistent barriers to their effective implementation. The most notable of these is resistance to change from educators, many of whom face challenges due to lack of digital literacy or reluctance to adapt to new technologies. This resistance is well-documented in the literature (Arum, 2023), and it is clear that insufficient training remains a significant

barrier to fully integrating digital education tools into teaching practices. Moreover, infrastructure deficiencies, such as limited access to high-speed internet and outdated technology, continue to obstruct the potential of digital education, particularly in less-developed regions (Ilyas et al., 2025). These challenges are exacerbated by financial constraints, where institutions in low-income regions struggle to allocate sufficient resources for both the acquisition of digital tools and the professional development of educators (Gunawan et al., 2024).

The study also reveals that managerial practices are crucial for overcoming these barriers. Effective resource allocation and the prioritization of professional development for educators were found to significantly enhance the quality of digital education. This is consistent with Human Capital Theory (Becker, 1989), which asserts that investing in human resources—such as training educators to use technology effectively—leads to greater educational outcomes. Furthermore, collaborative engagement among key stakeholders—including educational leaders, teachers, students, and parents—is essential for the success of digital education initiatives. Feedback loops from these stakeholders ensure that digital tools are continually refined to meet the evolving needs of learners, a finding supported by Bronfenbrenner (1979), which emphasizes the interdependent relationships between individuals and their environments. Active involvement from parents and students not only increases the relevance of digital tools but also promotes a sense of ownership and commitment to their success (Ilyas et al., 2025). Moreover, digital tools significantly impact learning quality, especially when they enhance personalized learning and improve accessibility. According to Fitriani et al. (2025), digital learning technologies have been shown to improve the quality of education by making learning more engaging and accessible for students across Indonesia.

Nevertheless, these findings also reveal an important tension between global trends in digital education—such as the widespread adoption of adaptive learning technologies—and the persistent realities of regional infrastructure disparities. While global frameworks promote personalized and technology-enhanced learning as a standard for improving educational quality, their implementation remains uneven across different geographical and socio-economic contexts. In regions with limited digital infrastructure, inadequate internet connectivity, and restricted access to technological resources, the benefits of personalized learning systems may not be fully realized. This suggests that the effectiveness of digital education management is highly context-dependent, requiring adaptive strategies that align global digital innovations with local institutional capacities and constraints.

This finding highlights the importance of adopting context-sensitive approaches to digital education management rather than relying solely on globally standardized models. Educational leaders and policymakers should consider local infrastructure readiness, socio-economic conditions, and institutional capacity when designing and implementing digital transformation initiatives. By balancing global technological innovations with local realities, educational institutions can improve the sustainability, inclusiveness, and effectiveness of technology-based learning programs across diverse educational settings.

Finally, the study highlights the positive impact that well-integrated technology can have on learning quality. Personalized learning systems, such as adaptive learning technologies, allow students to engage with material at their own pace, improving both engagement and academic performance. This is aligned with Vygotsky (1978), which

posits that learners construct knowledge through interactions with their environment and peers. Furthermore, the ability of digital tools to provide distance learning and asynchronous learning opportunities increases the accessibility of education for students in remote or underserved areas, thus contributing to greater inclusivity in the education system (Ilyas et al., 2025).

The findings of this study contribute to the understanding of how digital education management can be optimized. However, there are still many gaps in the literature, particularly in exploring the long-term impact of digital education on students' academic performance and well-being. In addition, future research should pay greater attention to how global digital education models can be effectively adapted to diverse regional contexts, particularly in addressing infrastructure inequalities and resource limitations. Future research should address these gaps by examining the sustainability of digital education practices and exploring how various local contexts, such as cultural differences and regional infrastructure disparities, impact the effectiveness of digital education strategies. Furthermore, exploring innovative models for teacher professional development and investigating the role of peer-to-peer learning in digital education could offer new insights into overcoming the barriers of resistance and digital illiteracy.

CONCLUSION

This study has demonstrated the critical role that digital education management plays in improving the quality of technology-based learning. The findings highlight the importance of educational leadership in driving digital transformation within educational institutions, emphasizing the need for strategic vision, collaborative decision-making, and the effective use of data-driven tools like Learning Management Systems (LMS). The study also identifies significant barriers to the effective implementation of digital education, such as resistance to change from educators and infrastructure deficiencies, particularly in regions with limited resources. Moreover, managerial practices such as adequate resource allocation and continuous teacher professional development were found to be pivotal in ensuring the successful integration of technology into educational settings. Furthermore, stakeholder engagement was identified as a key factor, with active collaboration among educators, students, parents, and policymakers being essential for the success of digital education initiatives.

The findings also reinforce the positive impact that technology-based learning can have on student engagement, academic performance, and learning accessibility, particularly in underserved areas. This underscores the potential of digital tools to make education more inclusive and personalized. However, the study also highlights the challenges that remain in fully realizing the potential of digital education, particularly the need for better infrastructure, financial investment, and teacher training.

Overall, this study contributes to the growing body of knowledge on digital education management by demonstrating that successful digital transformation extends beyond technology adoption alone. Effective leadership, strategic management practices, stakeholder collaboration, and continuous capacity building are equally important in ensuring that digital technologies generate meaningful improvements in educational quality. These findings provide practical guidance for educational leaders, policymakers, and institutions seeking to implement sustainable and inclusive digital learning initiatives.

Despite these contributions, this study is subject to several limitations inherent in the literature review methodology. The reliance on secondary data from selected academic databases may introduce publication bias, as the analysis is limited to studies that are accessible and published within indexed sources. Additionally, the exclusion of non-indexed or unpublished studies may restrict the diversity of perspectives captured in this review. Therefore, the findings should be interpreted with consideration of these limitations, particularly in relation to the generalizability of conclusions across different educational contexts.

Recommendations for Future Research

Given the findings of this study, future research should focus on examining the long-term effects of digital education management on student outcomes, particularly in diverse geographical and socio-economic contexts. It would be beneficial to explore how cultural factors and regional policies influence the success of digital education initiatives, as this can provide more localized and context-specific insights. Furthermore, investigating innovative models of teacher professional development, such as peer-to-peer learning or microlearning platforms, could offer effective solutions to address the resistance to technology and digital illiteracy among educators. Finally, future studies should examine the sustainability of digital education practices, exploring how institutions can maintain and scale successful digital education programs over time, particularly in low-resource settings.

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