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The Role of Technology in Improving the Quality of Islamic Religious Education in Schools and Madrasas in the Digital Era

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This study examines the integration of technology in enhancing the quality of Islamic religious education in schools and madrasas during the digital era. Using a qualitative approach, the research highlights how digital tools and platforms facilitate interactive learning, foster student engagement, and improve accessibility to religious education resources. The findings indicate that technology not only supports traditional pedagogical methods but also provides innovative solutions to address the evolving needs of students and educators. Platforms such as learning management systems, virtual classrooms, and digital libraries are identified as effective tools for teaching and learning Islamic studies. Moreover, the study explores the challenges faced in implementing technology, including digital literacy gaps, infrastructure limitations, and the need to align technological advancements with Islamic ethical values. By analyzing best practices from various institutions, the research offers insights into strategies for optimizing technology use while maintaining the spiritual and moral integrity of Islamic education. The study concludes that a balanced integration of technology, supported by teacher training and institutional readiness, can significantly enhance the quality of Islamic religious education, making it more relevant and effective in the digital age.

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1. Introduction

The digital era has significantly influenced numerous aspects of daily life, including how knowledge is disseminated and acquired. In the realm of education, the integration of technology has introduced transformative methods that enable broader access, interactivity, and efficiency in the learning process (Fatmawati & Firdaus, 2023). As education systems increasingly adopt digital tools, Islamic religious education is also called to adapt and evolve to remain relevant and effective. Schools and madrasas, which play a central role in transmitting Islamic knowledge and values, face the dual challenge of preserving their traditional educational ethos while embracing technological advancements. These developments present an urgent need for research that explores how technology can be leveraged to enhance the quality of Islamic religious education.

Islamic religious education holds a unique position in that it aims to achieve not only intellectual growth but also moral and spiritual development (Hoerudin et al., 2023). Traditionally, this education has been delivered through direct teacher-student interaction, focusing on classical texts and rote learning. While these methods have successfully preserved Islamic teachings for generations, they are increasingly perceived as insufficient to meet the needs of today's digital-native learners. Modern students expect interactive, engaging, and visually stimulating content, which traditional methods often lack. The integration of technology offers solutions to these challenges by providing platforms for dynamic and flexible learning experiences. Despite this potential, limited research has examined the specific application of digital tools in Islamic religious education.

Previous studies on technology in education have primarily focused on general or secular contexts. For instance, (Mar, 2024) demonstrated that virtual learning environments significantly improve student engagement and motivation in diverse educational settings. (Nasucha & Khozin, 2023) explored the use of digital libraries in enhancing accessibility to educational resources, but their study was not specifically directed toward religious education. In the context of Islamic studies, (Prasetia et al., 2021) identified the potential of e-learning to support the teaching of Islamic subjects but noted several obstacles, including infrastructure limitations, digital literacy gaps among educators, and concerns about maintaining Islamic ethical values in online platforms. These research findings point to a critical gap: a lack of comprehensive studies addressing how technology can be integrated

into Islamic religious education to enhance both its pedagogical effectiveness and alignment with Islamic principles.

The novelty of this study lies in its focus on developing a framework that harmonizes technological innovation with the ethical and spiritual dimensions of Islamic education. Unlike previous research, which often treats technological integration in education as a universal process, this study emphasizes the unique requirements and challenges of Islamic education. It aims to provide practical strategies for leveraging technology to improve teaching and learning processes in schools and madrasas while ensuring that Islamic ethical considerations are upheld.

The urgency of this research is underscored by the increasing reliance on technology in education, particularly accelerated by the COVID-19 pandemic, which forced many educational institutions to transition to online or hybrid learning (Hasibuan & Fahma, 2024). This shift revealed significant disparities in the preparedness of Islamic educational institutions to adopt digital solutions effectively. By addressing these challenges, the study seeks to provide insights into improving the readiness of schools and madrasas to implement technology, ultimately contributing to the sustainability of Islamic education in the digital age.

The primary objectives of this research are to evaluate the current use of technology in Islamic religious education, identify best practices for technological integration, and propose actionable strategies to enhance educational outcomes. The findings are expected to benefit educators, policymakers, and researchers by offering a deeper understanding of how technology can be utilized to preserve the integrity of Islamic teachings while meeting the evolving needs of students. Furthermore, this study contributes to the broader discourse on technology in education by addressing a critical yet underexplored area.

2. Research Method

This research adopts a qualitative approach with a focus on library research, also known as a literature study. The method involves systematically collecting, reviewing, and analyzing relevant academic sources to explore how technology contributes to improving the quality of Islamic religious education in schools and madrasas. By utilizing library research, this study emphasizes interpretive and contextual analysis, allowing for a deeper

understanding of how technological innovations align with pedagogical and ethical frameworks in Islamic education (Hasibuan & Fahma, 2024).

Data for this research are drawn from secondary sources, including peer-reviewed journal articles, books, official reports, and credible online publications. These sources provide insights into the theoretical and practical aspects of integrating technology into education and its specific application in Islamic studies. Previous studies, such as those by (Siroj, 2024), highlight the effectiveness of virtual learning environments in general education, while (Ali et al., 2024) discuss the opportunities and challenges of implementing e-learning in Islamic contexts. Additionally, global reports on the role of technology in education, such as those published by the (Siskandar, 2020), are used to contextualize the findings within broader trends.

The data collection process involves identifying, categorizing, and synthesizing relevant literature. Content analysis is used to examine recurring themes and patterns related to technological integration in Islamic education. The analysis focuses on understanding how digital tools can address current challenges, enhance pedagogical practices, and align with Islamic ethical values. By critically reviewing and synthesizing existing knowledge, the study aims to propose actionable recommendations for educators and policymakers. This approach ensures that the findings are grounded in established scholarship while contributing novel perspectives to the discourse on Islamic religious education in the digital era.

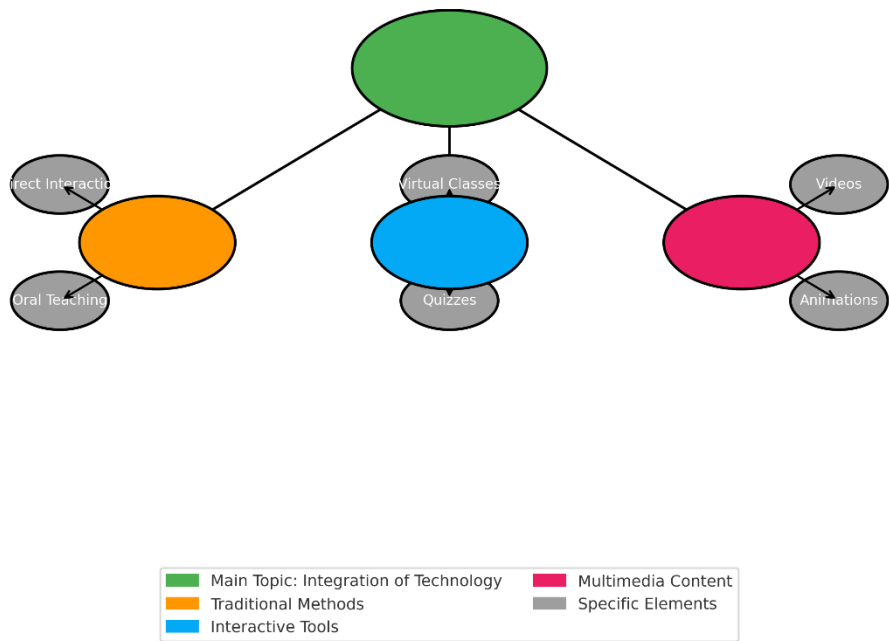
3. Result and Discussion

3.1 The Integration of Technology in Islamic Religious Education

The integration of technology into Islamic religious education has transformed traditional pedagogical approaches, allowing for more interactive, engaging, and accessible learning experiences. Digital tools such as e-learning platforms, mobile applications, and virtual classrooms provide innovative opportunities for students to learn Islamic teachings in a manner that resonates with the digital generation. For example, platforms like Google Classroom and Zoom have enabled teachers in schools and madrasas to deliver lessons remotely, ensuring continuity in education even during disruptions like the COVID-19 pandemic (Sartika et al., 2020).

This transformation is not without its challenges. Traditional Islamic teaching methods, which emphasize personal teacher-student interaction and direct oral transmission of knowledge, often face tension with the impersonal nature of digital platforms. However, these technologies, when used judiciously, can complement traditional methods by enabling teachers to utilize multimedia tools such as videos, animations, and interactive quizzes. These resources not only enhance understanding but also allow students to explore Islamic teachings in greater depth. By blending traditional methods with technological advancements, educators can address the learning preferences of modern students while preserving the spiritual essence of Islamic education.

Diagram of Technology Integration in Islamic Religious Education



The diagram above illustrates the integration of technology in Islamic religious education. It consists of the main topic, Integration of Technology, which focuses on the incorporation of technology to enhance teaching methods. The subtopics presented include Traditional Methods, referring to conventional approaches such as oral instruction and direct interaction; Interactive Tools, which encompasses interactive tools like quizzes and virtual classes; and Multimedia Content, involving multimedia content such as videos and animations. (Kultsum et al., 2022) Additionally, the diagram highlights specific elements within each subtopic, such as oral teaching in traditional methods or the use of videos in multimedia content. All elements

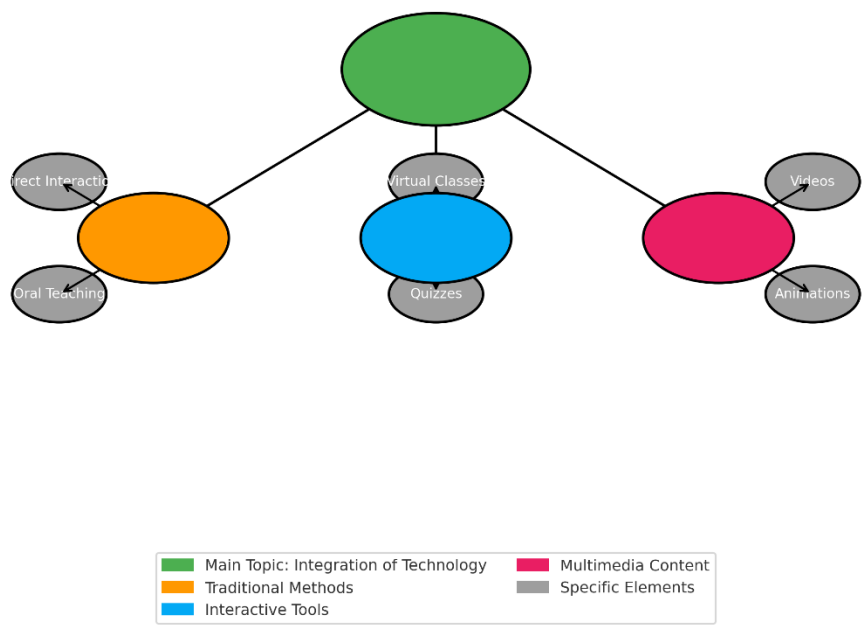
in the diagram are connected by arrows to show the conceptual relationships between the main topic, subtopics, and supporting elements.

3.2 Accessibility and Equity in Islamic Religious Education

Technology has played a pivotal role in increasing access to Islamic religious education. In rural or underserved areas where access to qualified teachers and educational resources is often limited, digital tools have bridged the gap by offering access to online lectures, digital libraries, and recorded lessons. For instance, mobile applications focusing on Quranic recitation and Hadith studies have allowed students to learn independently, irrespective of their geographic location (Hanafi et al., 2024).

However, equity remains a significant challenge in leveraging technology for Islamic education. Many schools and madrasas, particularly in developing countries, lack the necessary infrastructure, such as stable internet connections, modern devices, and adequate funding. Additionally, the digital divide, characterized by unequal access to technology among students and teachers, exacerbates these challenges. Addressing this divide requires systemic interventions, including investment in infrastructure, teacher training programs, and initiatives to provide affordable devices to students. Ensuring equitable access to technology is crucial for fostering an inclusive approach to Islamic religious education.

Diagram of Technology Integration in Islamic Religious Education

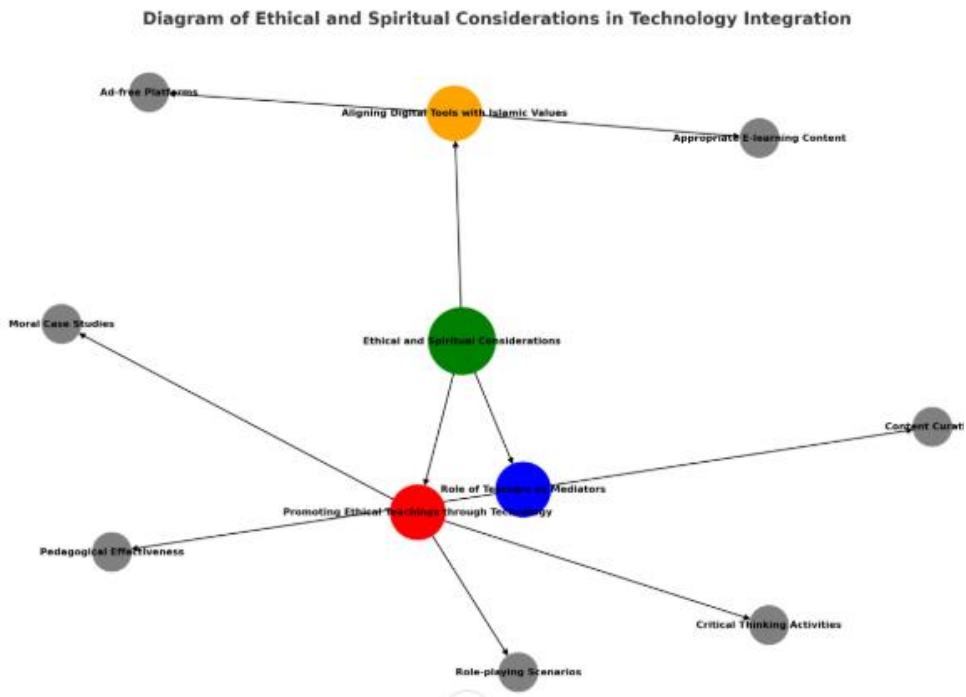


Here is the diagram illustrating the subtheme "Accessibility and Equity in Islamic Religious Education." It highlights the main topic of Accessibility & Equity, focusing on how technology influences access to Islamic religious education. The subthemes include Improved Access, which covers aspects like online access and remote learning, enhancing the reach of Islamic education; Challenges in Infrastructure, which refers to issues such as limited resources and poor internet connectivity that hinder the integration of technology; and Bridging the Digital Divide, addressing challenges like providing affordable devices and securing government support to ensure equal access to technology. Additionally, each subtheme includes specific elements, such as online access or government support, further clarifying the relationships within the subtheme.

3.3 Ethical and Spiritual Considerations in Technology Integration

A unique aspect of integrating technology into Islamic religious education is the need to align digital tools with Islamic ethical and spiritual values. The use of technology must ensure that the content being disseminated adheres to Islamic principles and promotes moral development. For instance, the design of e-learning platforms must avoid distractions, such as advertisements or inappropriate content, that could detract from the spiritual focus of the lessons (Santosa & Jazuli, 2022).

Moreover, teachers play a critical role in mediating the use of technology to ensure that it enhances, rather than undermines, the spiritual and moral objectives of Islamic education. This includes curating content that is both pedagogically effective and religiously appropriate. Additionally, digital tools can be used to emphasize the ethical teachings of Islam by incorporating case studies, role-playing, and discussions that promote critical thinking about moral dilemmas in the modern world. By addressing these ethical and spiritual dimensions, technology can serve as a powerful tool for fostering holistic learning in Islamic education.

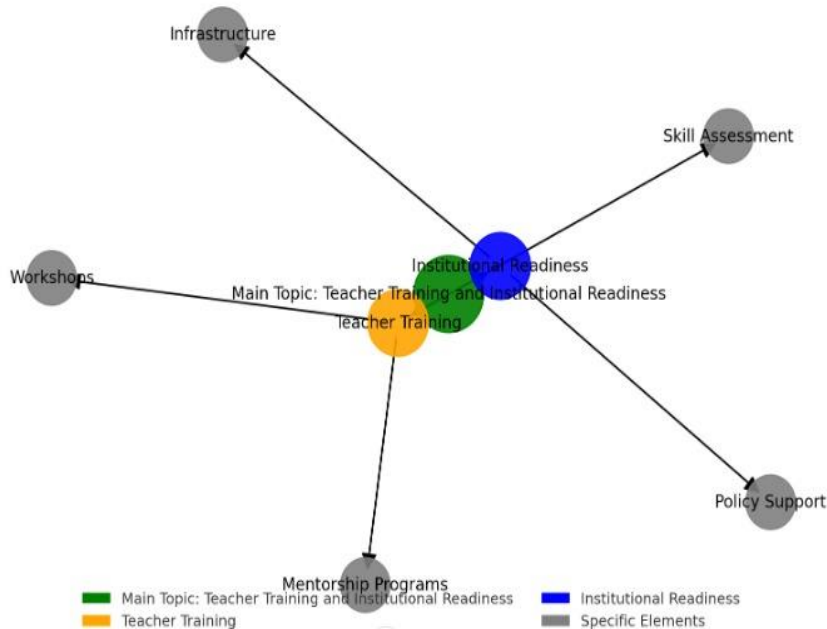


3.4 The Role of Teacher Training and Institutional Readiness

The successful integration of technology into Islamic religious education depends heavily on the readiness of teachers and institutions to adopt digital tools. Teachers must be equipped with the necessary digital literacy skills to effectively use technology in their classrooms. Training programs that focus on both technical proficiency and pedagogical strategies for integrating technology are essential. Research has shown that teachers who receive adequate training are more likely to embrace technology and utilize it effectively in their teaching practices (Djazilan & Hariani, 2022).

Institutional readiness is equally critical. Schools and madrasas must develop strategic plans for integrating technology, including investments in infrastructure, provision of technical support, and creation of digital curricula aligned with Islamic educational goals. Furthermore, collaboration between educational policymakers, technology providers, and religious scholars is essential to ensure that the adoption of technology is both feasible and aligned with Islamic values. Institutional commitment to these efforts can significantly enhance the overall quality and sustainability of Islamic religious education in the digital era (Minarti et al., 2023).

Diagram of Teacher Training and Institutional Readiness



4. Conclusion

This study highlights the critical role of innovative pedagogical strategies within hybrid learning environments to improve student engagement and academic outcomes in the post-pandemic era. Through a qualitative review of literature, four key themes emerge as essential components of an effective hybrid learning model: enhancing student engagement, supporting diverse learning styles, fostering digital literacy, and ensuring equity and accessibility. Each of these elements contributes uniquely to a holistic approach that meets the diverse needs of contemporary learners.

Firstly, student engagement is amplified by hybrid strategies that integrate interactive technologies and synchronous/asynchronous learning, fostering a sense of community and active participation. Secondly, hybrid learning's adaptability supports various learning styles, allowing educators to implement differentiated instruction that aligns with students' individual preferences and promotes better retention and motivation. Thirdly, digital literacy is essential in a hybrid model, as it enables students and instructors to navigate and utilize digital tools effectively, enriching the overall learning experience and preparing students for digital-oriented professional landscapes. Finally, addressing equity and accessibility ensures that hybrid learning is inclusive and adaptable to diverse student needs, with universal design principles and resource support bridging the digital divide.

In summary, the post-pandemic educational landscape presents a unique opportunity for institutions to adopt hybrid learning models that are both flexible and robust. By focusing on innovative pedagogical practices that address engagement, diversity, digital competence, and inclusivity, educators can create hybrid learning environments that not only respond to immediate academic challenges but also support long-term student success and educational equity. These insights contribute to ongoing discussions on the transformation of education, offering a practical framework to guide the design and implementation of hybrid learning in varied educational contexts.

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