



# Application of Information Technology in Integrated Quality Management of Islamic Education at MIS Ashhabul Qur'an Bukittinggi

Yenni Fitriani\*, Zulfani Sesmiarni, Muhammad Ramlan

State Islamic University Sjech M.Djamil Djambek Bukittinggi, Bukittinggi, Indonesia

State Islamic University Sjech M.Djamil Djambek Bukittinggi, Bukittinggi, Indonesia

University of Alquran Karim Mukallam, Mukallam, Yaman

\*email Koresponden Penulis: [yennifitriani8297@gmail.com](mailto:yennifitriani8297@gmail.com)

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## ABSTRACT

*This study aims to analyze the application of information technology in integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi. Using descriptive qualitative research methods and a case study approach, this research explores how information technology is integrated in various aspects of educational management, such as student data management, the learning process, and communication between schools and parents. Data collection techniques were conducted through in-depth interviews, direct observation and documentation studies involving the school, teachers, administrative staff and parents. The results showed that the application of information technology at MIS Ashhabul Qur'an Bukittinggi has brought positive impacts in improving administrative efficiency, enriching the learning process, and facilitating communication between the school and parents. However, challenges such as limited infrastructure, teachers' readiness to operate technology and resistance to change are still obstacles that need to be overcome. This study recommends the importance of continuous training for teachers, updating technology devices and improving infrastructure facilities to ensure a more optimal implementation of technology. The application of information technology in this school can serve as an example for other Islamic education institutions to improve the quality of education management in order to achieve better education quality.*

**Keywords:** Information Technology, Quality Management, Islamic Education.

## ABSTRAK

Penelitian ini bertujuan untuk menganalisis penerapan teknologi informasi dalam manajemen mutu terpadu pendidikan Islam di MIS Ashhabul Qur'an Bukittinggi. Dengan menggunakan metode penelitian kualitatif deskriptif dan pendekatan studi kasus, penelitian ini menggali bagaimana teknologi informasi diintegrasikan dalam berbagai aspek pengelolaan pendidikan, seperti pengelolaan data siswa, proses pembelajaran, dan komunikasi antara sekolah dan orang tua. Teknik pengumpulan data dilakukan melalui wawancara mendalam, observasi langsung, dan studi dokumentasi yang melibatkan pihak sekolah, guru, staf administrasi, dan orang tua siswa. Hasil penelitian menunjukkan bahwa penerapan teknologi informasi di MIS Ashhabul Qur'an Bukittinggi telah membawa dampak positif dalam meningkatkan efisiensi administrasi, memperkaya proses pembelajaran, dan mempermudah komunikasi antara pihak sekolah dan orang tua. Namun, tantangan seperti keterbatasan infrastruktur, kesiapan guru dalam mengoperasikan teknologi, dan resistensi terhadap perubahan masih menjadi hambatan yang perlu diatasi. Penelitian ini merekomendasikan pentingnya pelatihan berkelanjutan bagi guru, pembaruan perangkat teknologi, serta peningkatan fasilitas infrastruktur guna memastikan penerapan teknologi yang lebih optimal. Penerapan teknologi informasi di sekolah ini dapat menjadi contoh bagi lembaga pendidikan Islam lainnya untuk meningkatkan kualitas manajemen pendidikan dalam rangka mencapai mutu pendidikan yang lebih baik.

**Kata kunci:** Teknologi Informasi, Manajemen Mutu Pendidikan, Pendidikan Islam.

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## A. INTRODUCTION

The application of information technology in Islamic Education institutions is very important at this time. Because technology is currently developing in the world of education, therefore Islamic Education Institutions must immediately transfer their education to technological developments. Along with the times, Islamic education is not only faced with the challenge of maintaining Islamic values, but also with the demand to continue to innovate and follow technological advances (Damai Yanti & Aulia 2021, 11). One form of innovation that can be implemented in Islamic education is the application of information technology in education quality management.

Total quality management (TQM) in the context of Islamic education is an effort to ensure that all components in an educational institution work together to achieve high quality standards. In its application, integrated quality management involves not only teachers and administrative staff, but also students, parents and all relevant stakeholders. The process involves careful planning, proper implementation and continuous evaluation to create an effective and efficient educational environment. With information technology, this process has become more systematic, transparent and can be monitored in greater depth (Zawawi & Sa'diyah 2021, 58). Therefore, information technology is an important element that can support the implementation of integrated quality management in Islamic education.

Islamic educational institutions realize the importance of information technology to support the quality of education (Sesmiarni et al 2022, 6120). One of them is MIS Ashhabul Qur'an Bukittinggi, an Islamic educational institution that continues to strive to improve the quality of education provided to its students. In order to optimize the teaching and learning process, MIS Ashhabul Qur'an Bukittinggi has utilized various information technology tools to support educational management, including in terms of assessment, administrative management, and communication with parents (Mutaqin et al 2023, 56). The information technology implemented in this school does not only focus on the teaching aspect, but also includes the student data management system, curriculum planning, as well as monitoring the overall quality of education.

The application of information technology in education quality management is expected to improve efficiency and effectiveness in carrying out administrative and teaching tasks in schools. For example, information systems used in schools can assist in monitoring students' academic progress in real-time, provide accurate performance reports to relevant parties, and facilitate smoother communication between schools, students and parents. Thus, education management becomes more transparent and well-organized, facilitating continuous evaluation and improvement that are essential in achieving educational goals (Mukarromah 2021, 110).

The application of information technology in education quality management also allows for innovation in learning methods. With technology, learning materials can be delivered in a more interesting and interactive way, using multimedia, educational software, and online platforms that can be accessed anytime and anywhere. This can certainly improve the quality of the teaching and learning process, as well as motivate students to be more active

in participating in learning activities (Amin 2023, 457). For example, the use of technology-based educational applications can make it easier for students to access course materials, conduct online tests, or even collaborate with classmates in completing assignments together.

The application of information technology in the integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi also faces various challenges. One of the main challenges is the readiness of human resources, both in terms of the technological skills of teachers and administrative staff and in terms of the ability of students to utilize technology optimally. Therefore, continuous training and mentoring is needed for education managers to be able to use technology effectively. On the other hand, schools must also ensure that they have adequate technology infrastructure, such as a stable internet network and technology devices that can support teaching and learning activities.

The application of information technology in integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi also needs attention to the integration of Islamic values in the use of information technology. As an Islamic educational institution, MIS Ashhabul Qur'an Bukittinggi must ensure that the information technology applied supports the vision and mission of the school, while maintaining the principles of Islamic education. Technology should not obscure the main objectives of Islamic education, namely the formation of good character, the cultivation of noble morals, and teaching based on the Qur'an and hadith (Indra & Supraha 2021, 149).

One aspect that also needs to be considered in the application of information technology in Islamic education quality management is supervision and evaluation. In an integrated quality management system, continuous supervision is essential to ensure that every component in an educational institution is functioning properly and in accordance with established standards. Information technology can be used to facilitate this monitoring and evaluation process, whether in the form of monitoring teacher performance, evaluating student learning outcomes, or assessing policies and procedures implemented in schools. (Syarif 2023, 549). With accurate and integrated data, the evaluation process becomes more objective and evidence-based, making improvements more targeted and effective.

Along with the rapid development of information technology, the application of technology in Islamic education quality management at MIS Ashhabul Qur'an Bukittinggi is a strategic step to improve the quality of education. Technology provides a great opportunity to create a more organized, efficient and innovative educational environment, while strengthening the principles of Islamic education based on morals and religious values. Therefore, it is important for all parties involved in education at MIS Ashhabul Qur'an Bukittinggi to collaborate with each other in maximizing the potential of technology, in order to realize quality education quality management and competitiveness.

Research on the application of information technology in integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi is very important to identify the extent to which technology can support the improvement of the quality of education in this institution. This research is also expected to provide an overview of the challenges and obstacles faced in the implementation of technology, as well as solutions that can be taken to overcome these problems (Ibrahim & Rusdiana 2021, 78). Thus, the results of this study can be a reference for the development of a better education quality management system in the future, both at MIS Ashhabul Qur'an Bukittinggi and in other Islamic educational institutions.

## B. METHOD

This research uses descriptive qualitative research methods with a case study approach to analyze the application of information technology in integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi (Sugiyono 2020, 188). Data collection techniques were carried out through various means, namely in-depth interviews, direct observation, and documentation studies (Sugiyono 2017, 52). In-depth interviews were conducted with those directly involved in the education management process at MIS Ashhabul Qur'an Bukittinggi, such as the principal, teachers, administrative staff, and some parents. Direct observation was also conducted at MIS Ashhabul Qur'an Bukittinggi to directly observe how information technology is applied in teaching and learning activities and in education management. Researchers will analyze various relevant documents, such as the curriculum applied at MIS Ashhabul Qur'an Bukittinggi, school performance reports, evaluation reports on learning activities, and notes or reports related to the application of information technology in education quality management (Sugiyono 2014, 57).

Data collected from interviews, observations, and documentation will be analyzed using thematic analysis techniques. The first step in thematic analysis is organizing the data based on themes that emerged during the data collection process. The researcher will identify the main themes related to the application of information technology in education quality management, such as the use of information systems for academic management, the impact of technology on teaching quality, and the challenges faced in integrating technology in Islamic education. Once the themes are identified, the researcher will classify the data according to the relevant themes and then analyze the relationships between the themes to gain a more holistic understanding of the application of information technology in education quality management at MIS Ashhabul Qur'an Bukittinggi. Furthermore, the researcher will triangulate the data to increase the validity of the research findings (Ramadhoni 2024, 480). Triangulation is done by comparing data obtained from various sources, namely interviews with various parties, observation results, and analyzed documents.

## C. RESULT AND DISCUSSION

The application of information technology in the integrated quality management of Islamic education at MIS Ashhabul Qur'an Bukittinggi is a significant step in optimizing the educational and administrative processes at the school. The use of information technology in this school is not only limited to teaching but also includes student data management, teacher performance evaluation, as well as communication with parents, all of which contribute to improving the overall quality of education (Syarifuddin 2023, 29). This discussion will further elaborate on the impact of the application of information technology on education quality management at MIS Ashhabul Qur'an Bukittinggi, both in terms of benefits, challenges, and strategies undertaken to overcome various obstacles that arise.

### **Application of Technology in Student Administration and Data Management**

One aspect that is very visible in the application of information technology at MIS Ashhabul Qur'an Bukittinggi is in the management of school administration, especially those related to student data. Previously, student data management was done manually, which of course was time-consuming and prone to errors (Al-Ikhlas 2023, 1712). With a technology-based information system, student data management becomes more efficient, accurate, and

organized. The system allows the school to monitor each student's academic progress in real-time, from test scores, attendance, to other development records. This makes it easier for the school to evaluate student achievement and provide faster feedback to parents and students themselves.

The technology or application applied in this administrative management is AshhabulSmart. AshhabulSmart is an information technology-based application designed to support administrative management at MIS Ashhabul Qur'an Bukittinggi. The name combines the identity of the madrasah, "Ashhabul," with the word "Smart," which reflects innovation and technological sophistication. This application is here to improve efficiency, accuracy, and transparency in student data management. With AshhabulSmart, important data such as academic grades, attendance, and student progress can be managed in real-time, making it easier for teachers and administrative staff in evaluation and learning planning. In addition, parents can also utilize the portal provided to monitor their child's development, strengthening collaboration between the school and family.

This application also plays a role in supporting the madrasah's vision towards modern technology-based education. Administrative archives such as registration documents, grade reports, and official letters are stored in digital form, making them easier to access and reducing the risk of data loss. With a centralized and structured recording system, AshhabulSmart simplifies the data search process for administrative needs and periodic reports. In addition, AshhabulSmart helps school management in analyzing data patterns, such as student attendance, academic performance, and special needs. This data becomes the basis for making appropriate policies, such as coaching programs for students who need more attention or awards for outstanding students. By automating various administrative tasks, the app also reduces the manual workload of staff and teachers, allowing them to focus more on teaching and learning activities. Overall, AshhabulSmart is a strategic step in the digital transformation of madrasahs, integrating technology to support administration, decision-making, and education quality improvement.

This integrated data management also plays an important role in the decision-making process at the managerial level. Well-organized data allows principals and administrative staff to make more informed decisions regarding academic policies or specific student needs. For example, data obtained from the information system can be used to look at student attendance patterns, whether there are students who are often absent or do not show good progress (Safitri 2023, 1706). Based on this data, schools can design appropriate coaching programs to improve student performance or give special attention to those who need more help.

### **Utilization of Technology in the Learning Process**

The application of technology at MIS Ashhabul Qur'an Bukittinggi also has a positive impact in enriching students' learning experience with a more diverse range of resources. In the classroom, teachers often use web-based learning applications that allow students to access practice questions, videos and reference materials related to the lesson. For example, in Arabic lessons, students can use apps to practice vocabulary and grammar in a more interactive way. Teachers can also monitor students' progress directly and provide quick feedback, helping students improve their understanding more efficiently. This makes the learning process more interesting and encourages students to participate more actively.

The application of technology outside of class hours, students have access to independent learning through the AshhabulSmart application, which allows them to access



materials that have been uploaded by teachers and work on assignments at any time. This feature gives students the freedom to set their own learning time, so they can learn at a pace that suits their individual abilities. This is especially beneficial for students who need more time to understand the material or for those who want to deepen the material that has been taught previously.

The application of technology brings many benefits but the main challenge faced is the unpreparedness of some teachers and students in utilizing technology optimally. Some teachers at MIS Ashhabul Qur'an Bukittinggi still struggle to operate technology to its full potential, either due to a lack of digital skills or unfamiliarity with existing educational applications. To overcome this problem, the school organizes regular training and direct mentoring for teachers to improve their skills in using devices and applications that support learning. Technical support from the school IT team is also provided to help teachers deal with technical issues that may arise (Ansori 2023, 43).

Continued training and more widespread use of technology in learning is expected to create a more inclusive, interactive and effective learning environment. Technology not only enriches the subject matter but also provides opportunities for students to learn independently with more flexibility. Schools can also better monitor students' progress and provide personalized attention according to their needs. Thus, the use of technology at MIS Ashhabul Qur'an Bukittinggi can continue to grow, having a positive impact on improving the quality of education provided.

### **The Role of Technology in Communication and Collaboration**

The implementation of information technology at MIS Ashhabul Qur'an Bukittinggi has had a major impact on administrative management and the learning process. Technology-based systems such as AshhabulSmart make it easier to manage student data in real-time, replacing error-prone and time-consuming manual methods. Student data such as grades, attendance, and progress notes can be accessed easily by the school and parents, ensuring faster and more accurate information. The system also makes it easier to manage teacher data and school activities, including teaching schedules, teacher attendance, and performance evaluations, making administrative processes more efficient and organized.

One other aspect that benefits from the application of information technology at MIS Ashhabul Qur'an Bukittinggi is in terms of communication and collaboration. Previously, communication between the school and parents was often hampered by distance and time, which resulted in information received by parents not always being up-to-date or complete. With the information system implemented, the school can send regular student progress reports to parents via email or a special platform provided by the school (Syaefudin 2018, 156). Parents can also give feedback or ask questions about their child's progress more easily and quickly. This creates a more open and transparent communication channel between the school and parents (Zulfani 2023, 42).

Technology also supports collaboration between teachers and students. With technology-based learning platforms, students can discuss, share assignments or make presentations online, enriching their learning experience (Umam 2020, 69). This collaboration can also involve other parties, such as teachers from other schools or experts in certain fields, who can provide new perspectives and broader insights for students. The application of technology in this collaboration improves the quality of education by expanding the range of learning resources accessible to students (Solechan 2024, 88).

Implementation the use of technology at MIS Ashhabul Qur'an Bukittinggi allows for more dynamic and interesting teaching methods. Teachers can make use of various devices, such as projectors, multimedia applications, and learning videos, to deliver materials in a more interesting way, especially for materials that require visualization, such as natural science and mathematics. In addition, applications such as Google Classroom and AshhabulSmart allow students to access course materials, do assignments and take exams online. This provides flexibility for students to study outside of class hours and at their own pace. Technology also supports collaboration between students in the classroom and through online platforms, enriching their learning experience.

During the pandemic, the application of technology is increasingly important to support distance learning (PJJ). AshhabulSmart is used to facilitate PJJ, allowing students to still access materials and interact with teachers despite not being at school. With features such as discussion forums and learning videos, students can learn independently and better understand the material. Technology also gives students the freedom to learn anytime and anywhere, without being bound by time or place. Although technology brings many benefits, challenges remain, especially in terms of teachers' readiness to optimize the use of technology. Therefore, the school provides regular training to improve teachers' digital skills, so that they can make the most of the devices and applications. With this support, the use of technology in schools is expected to flourish, improving the overall quality of administration and learning.

Table: Use of Technology in Administrative and Learning Management at MIS Ashhabul Qur'an Bukittinggi

Aspects	System or Application Used	Key Benefits
Student Data Management	AshhabulSmart (Student Administration System)	Make it easier to record and monitor grades, attendance, and student progress directly
Teacher Data Management	AshhabulSmart (Student Administration System)	Manage schedules, attendance, and teacher performance evaluation in an efficient and structured manner.
School Activity Management	AshhabulSmart (Student Administration System)	Organize extracurricular activities, exams and school events more effectively
Interactive Learning	Projector, Multimedia Application (Video, Animation)	Membantu penyampaian materi yang lebih visual dan mudah dipahami, terutama untuk konsep-konsep yang kompleks
App-based Learning	Google Classroom, AshhabulSmart	Facilitate digital and online uploading of materials, assignments, and exams
Collaborative Learning	AshhabulSmart, Online Discussion App	Increases interaction between students and enables collaboration with external parties
Distance Learning (PJJ)	AshhabulSmart	Provides access to course materials, exams, and discussions even if students are not present at school

Through the implementation of this technology-based system, MIS Ashhabul Qur'an Bukittinggi managed to improve the efficiency of administrative management and create a more interactive and flexible learning environment.

## Challenges and Barriers to Technology Implementation

Although the application of information technology provides many benefits, challenges in its implementation remain. One of the main challenges is the limited resources, both in terms of infrastructure and human skills (Ramadhoni 2023, 235). Despite the school's efforts to integrate technology in education quality management, some of the devices used still need to be updated to better suit the latest technological developments. For example, although AshhabulSmart has been implemented for student and teacher data management, devices such as computers or tablets used are often outdated and not optimal for running more sophisticated applications. In addition, some classrooms that should be equipped with multimedia devices, such as projectors, still do not fully have adequate facilities, resulting in an imbalance in the quality of technology-based learning between classes (Iswantir 2022, 233).

The issue of access to technology also poses a significant barrier. Many students and parents do not have adequate computer devices or reliable internet connections at home. In more remote areas, such as the outskirts of Bukittinggi, internet signal quality is very limited, making it difficult for students to participate in online learning or access learning materials online. During remote learning (PJJ) in the pandemic, some students reported difficulties accessing materials through AshhabulSmart due to unstable internet connections. This situation certainly affects the effectiveness of the learning process and creates a gap in educational access between students in areas with better technological infrastructure and those with more limited access.

Another challenge often faced is resistance to change. Some teachers and school staff feel more comfortable with traditional methods of teaching and managing administration, so the implementation of technology is often seen as an additional burden. According to interviews with several teachers, they expressed that transitioning from manual methods to digital systems requires a significant amount of adaptation time. Some teachers also find it difficult to master new technologies due to their unfamiliarity with the devices and applications used. Therefore, better change management is needed to overcome this barrier, involving all parties in the transition process. The school needs to provide regular and intensive training to improve teachers' digital skills, as well as offer ongoing technical support. With adequate training and technical assistance, teachers are expected to become more confident and effective in using technology to support teaching and administrative management.

## Solutions and Recommendations

To address infrastructure issues, the school needs to update outdated hardware, such as computers, tablets, and projectors, to support more modern and advanced technology applications. Upgrading this equipment will ensure that the technology used can provide maximum benefits for students' learning experiences and improve efficiency in administrative management. As a solution, the school could plan for the gradual procurement of new devices or partner with external organizations to support funding for these acquisitions. Additionally, to support more effective online learning, improving internet network quality is also crucial. Therefore, collaborating with internet service providers to strengthen connections in the school area should be prioritized. The school could also provide additional internet access for students in areas with limited access, such as by offering modems to students in need.

Regarding access to technology, one step that can be taken is providing digital devices for students who do not have adequate equipment. A device loan program for financially



disadvantaged students could be a solution to ensure they can still participate in technology-based learning. Additionally, to support the enhancement of teachers' digital skills, the school needs to organize continuous and in-depth training on the use of technology in teaching. This training should cover practical aspects such as the use of hardware, digital learning applications, and student data management through technology-based systems. The school could collaborate with training institutions or technology companies to provide systematic training. Furthermore, utilizing experienced teachers to train their colleagues will expedite the transition process and strengthen the digital skills of the entire staff.

Adequate technical support is crucial to ensure that the use of technology is not disrupted. Therefore, the school should appoint an internal technical team that is ready to provide immediate assistance when technical issues arise, as well as create a platform that allows teachers and staff to consult with the IT team. Additionally, to reduce resistance to change, it is important for the school to manage the implementation of technology in a more inclusive and planned manner. All parties, from teachers to administrative staff, should be involved in the planning and implementation process, so they feel a sense of ownership and can adapt more easily. The school needs to organize awareness programs that explain the benefits of technology and provide opportunities for teachers to express the challenges they face. Offering incentives or rewards for teachers who successfully integrate technology into their teaching can also be a way to motivate them. Furthermore, organizing experience-sharing forums among teachers who are proficient in using technology will foster a collaborative atmosphere that supports the digital transformation of the school.

The implementation of these solutions and recommendations is expected to help overcome the existing barriers, improve the quality of learning, and facilitate more efficient administrative management at MIS Ashhabul Qur'an Bukittinggi.

#### **D. CONCLUSION**

Based on the research on the implementation of information technology at MIS Ashhabul Qur'an Bukittinggi, it can be concluded that technology plays a crucial role in improving the efficiency and quality of education, both in terms of administrative management and the learning process. In administrative management, technology helps organize data on students, teachers, and school activities in a more systematic and accurate way. Technology-based systems allow the school to monitor students' progress effectively, accelerate decision-making, and improve communication with parents, ultimately speeding up administrative services and increasing transparency. On the other hand, in the field of learning, technology enriches teaching methods by utilizing multimedia and interactive applications, making the learning process more engaging. Remote learning also provides flexibility for students to learn despite facing physical challenges.

The implementation of technology comes with challenges that must be addressed, such as limited access to technology, resistance to change, and inadequate digital skills among teachers. To overcome these challenges, it is recommended that the school gradually update its technology devices, strengthen internet access, and conduct ongoing training to improve the digital skills of teachers and staff. The technology transition process should also involve all stakeholders to create an environment that supports collaboration and professional development. Overall, the implementation of technology at MIS Ashhabul Qur'an Bukittinggi has had a positive impact on the quality of education. By addressing the existing barriers and

implementing the right solutions, the school can maximize the use of technology to achieve more efficient and high-quality educational outcomes in the future.

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