

Integrating Digital Literacy in Christian Religious Education: a Study of Student in Politeknik Negeri Ambon

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ABSTRACT

This study investigates the integration of digital literacy into Christian Religious Education (CRE) at Politeknik Negeri Ambon, examining its impact on student engagement, academic performance, and ethical development. Employing a mixed-methods approach, the research involved surveys, assessments, interviews, and focus groups with students and educators. The results indicated that higher levels of digital literacy significantly enhance student engagement and academic performance in CRE, while also positively influencing moral and ethical development. However, challenges such as inadequate infrastructure, lack of training, and resistance to change were identified as barriers to successful integration. The study concludes that with appropriate support and resources, integrating digital literacy into CRE can provide a comprehensive educational experience that aligns with both technological advancements and religious principles.

Keywords: Digital Literacy; Christian Religious Education; Student Engagement; Academic Performance; Ethical Development

INTRODUCTION

In the rapidly evolving digital age, digital literacy has become a fundamental skill for navigating contemporary life, impacting various sectors including education, economy, and social interactions (Muhamad, Abdul, & Furqon, 2023). The integration of digital literacy into educational curricula is essential to equip students with the necessary skills to function effectively in a technology-driven world (Sugiarto, Ahmad, & Farid, 2023). In particular, tertiary education institutions play a pivotal role in fostering these competencies, preparing students to meet the demands of the modern workforce and society (Moh. & Hasan, 2023;Nunuk, Sang, Immanuel, & Duha, 2023; (Imelda et al., 2023). This study focuses on integrating digital literacy within the context of Christian Religious Education at Politeknik Negeri Ambon, recognizing the unique challenges and opportunities this intersection presents.

Christian Religious Education (CRE) traditionally emphasizes the spiritual and moral development of students, guided by Christian teachings and values (Agus & Maylia, 2023). However, the inclusion of digital literacy within this discipline is relatively unexplored, despite the increasing reliance on digital tools for educational purposes (Rudie, Octa, & Sihombing, 2023; Erwin & Sapan, 2023). The convergence of digital literacy and CRE offers a promising avenue to enhance students' learning experiences, making the religious education process more engaging and relevant to their daily lives (Anna, 2023). This integration also allows for a broader understanding of how digital technologies can be harnessed to support and disseminate religious teachings (Mikha & Widiyanto, 2022).

Politeknik Negeri Ambon, as a notable institution in Indonesia, is at the forefront of implementing innovative educational strategies to enhance student

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learning outcomes. The institution's commitment to academic excellence and holistic student development positions it well to explore the integration of digital literacy in CRE. Given the diverse student body and the dynamic socio-cultural context of Ambon, this study aims to provide insights into how digital literacy can be effectively incorporated into CRE, fostering a well-rounded educational experience that aligns with both technological advancements and religious principles.

Despite the recognized importance of digital literacy in modern education, there is a significant gap in research regarding its integration into Christian Religious Education, particularly within the context of higher education institutions like Politeknik Negeri Ambon. The lack of empirical data and practical frameworks for incorporating digital skills into CRE curricula poses a challenge for educators seeking to modernize their teaching approaches. This study addresses the critical question of how digital literacy can be effectively integrated into CRE, identifying the barriers, opportunities, and best practices for achieving this integration in a manner that respects and enhances the core values of Christian education.

This research aims to investigate the integration of digital literacy into Christian Religious Education at Politeknik Negeri Ambon. This study aims to identify the current state of digital literacy among CRE students, explore the attitudes and perceptions of both students and educators towards this integration, and develop practical recommendations for enhancing digital literacy within the CRE curriculum. By achieving these objectives, the research seeks to contribute to the development of a comprehensive framework that supports the seamless inclusion of digital competencies in religious education, ultimately improving student engagement and learning outcomes.

This research holds significant implications for both the academic and practical realms of education. Academically, it contributes to the limited body of knowledge on the intersection of digital literacy and religious education, providing a foundation for further studies in this emerging field. Practically, the findings of this study will offer valuable insights for educators and policymakers at Politeknik Negeri Ambon and similar institutions, guiding them in implementing effective strategies for integrating digital literacy into CRE. Additionally, this research underscores the importance of preparing students not only for professional success but also for meaningful participation in a digital society, ensuring that they are well-equipped to navigate the complexities of the modern world while staying grounded in their religious and moral values.

Literature Review

1. The Evolution of Digital Literacy

Digital literacy, defined as the ability to effectively use digital tools and technologies to locate, evaluate, create, and communicate information, has become an essential competency in the 21st century. Scholars like Gilster (1997) have been instrumental in highlighting the multifaceted nature of digital literacy, emphasizing its critical role in education, the workforce, and daily life. Recent studies, such as those by Eshet-Alkalai (2004) and Ng (2012), have expanded this understanding, identifying core components including digital skills, critical thinking, and socio-emotional



aspects. The evolution of digital literacy frameworks, such as the Digital Competence Framework for Citizens (DigComp) developed by the European Commission, underscores the growing recognition of digital literacy as a cornerstone of modern education.

2. Digital Literacy in Higher Education

The integration of digital literacy in higher education has been widely researched, with numerous studies emphasizing its importance for student success. According to research by Jones and Shao (2011), digital literacy is crucial for academic performance, fostering critical thinking, and enhancing employability. Selwyn (2009) argues that higher education institutions have a responsibility to embed digital literacy into their curricula to prepare students for the demands of the digital age. Various models and frameworks have been proposed to guide this integration, such as Beetham and Sharpe's (2010) framework, which outlines stages of development from access and awareness to critical and creative use of digital tools. However, the specific application of these frameworks within the context of specialized disciplines, such as religious education, remains underexplored.

3. Christian Religious Education and Digital Technology

Christian Religious Education (CRE) has traditionally focused on imparting spiritual and moral teachings based on Christian doctrines. The inclusion of digital technology in CRE poses unique challenges and opportunities, as noted by scholars like Bennett and Maton (2010). The use of digital tools can enhance the accessibility and engagement of religious education, allowing for interactive and multimedia-rich content that can bring biblical stories and teachings to life. However, the integration must be carefully managed to ensure it aligns with the spiritual objectives of CRE. Research by Greenhow, Robelia, and Hughes (2009) highlights the potential of digital tools to support collaborative learning and deeper engagement with religious texts. Yet, there is a need for empirical studies that specifically examine the impact of digital literacy on CRE outcomes.

4. Challenges in Integrating Digital Literacy into CRE

The integration of digital literacy into CRE is fraught with challenges, ranging from resistance to change among educators to the lack of digital infrastructure in some institutions. According to Mott (2010), educators may struggle with the dual demands of maintaining religious integrity while incorporating digital skills. The lack of comprehensive training for educators in digital literacy further exacerbates this issue, as highlighted by Levin and Arafeh (2002). Additionally, cultural and theological concerns may arise, as some stakeholders might view digital tools as potentially distracting or misaligned with religious teachings. Overcoming these challenges requires a nuanced approach that respects the religious context while promoting digital competency.

5. Hypothesis Development

a. The Role of Digital Literacy in Enhancing Student Engagement in CRE

The integration of digital literacy into educational curricula has been shown to significantly enhance student engagement. According to Chen, Lambert, and Guidry (2010), digital tools and resources can make learning more interactive and dynamic,



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leading to increased student interest and participation. In the context of Christian Religious Education (CRE), incorporating digital literacy could similarly enhance engagement by making religious teachings more accessible and relatable. For instance, multimedia resources such as videos, interactive timelines, and digital storytelling can bring biblical narratives to life, fostering a deeper connection with the material. Therefore, it is hypothesized that:

1. Chen, P. S. D., Lambert, A. D., & Guidry, K. R. (2010). Engaging online learners: The impact of Web-based learning technology on college student engagement. Computers & Education, 54(4), 1222-1232.

H1: Integrating digital literacy into Christian Religious Education at Politeknik Negeri Ambon will significantly enhance student engagement.

b. Digital Literacy and Academic Performance in CRE

Numerous studies have established a positive correlation between digital literacy and academic performance. Research by Claro et al. (2012) indicates that students with higher levels of digital literacy tend to perform better academically, as they can efficiently access, evaluate, and utilize information. In the context of CRE, digital literacy skills could enable students to conduct more in-depth research, critically analyze religious texts, and participate in online discussions, thereby improving their academic performance. This leads to the second hypothesis:

 Claro, M., Salinas, Á., Cabello-Hutt, T., San Martín, E., Preiss, D. D., Valenzuela, S., & Jara, I. (2018). Teaching in a Digital Environment (TIDE): Defining and measuring teachers' capacity to develop students' digital information and communication skills. Computers & Education, 121, 162-174.

H2: Higher levels of digital literacy among students will positively correlate with improved academic performance in Christian Religious Education at Politeknik Negeri Ambon.

c. Educators' Attitudes Towards Digital Literacy Integration

The successful integration of digital literacy into any curriculum largely depends on the attitudes and readiness of educators. According to Ertmer and Ottenbreit-Leftwich (2010), educators who are positive about the use of digital tools and feel confident in their digital skills are more likely to integrate these tools effectively into their teaching practices. In the context of CRE at Politeknik Negeri Ambon, it is crucial to understand educators' perceptions and their willingness to incorporate digital literacy into their teaching. Thus, the third hypothesis is:

1. Ertmer, P. A., & Ottenbreit-Leftwich, A. T. (2010). Teacher technology change: How knowledge, confidence, beliefs, and culture intersect. Journal of research on Technology in Education, 42(3), 255-284.

H3: Positive attitudes and higher confidence levels among educators towards digital literacy will significantly influence the effective integration of digital literacy into Christian Religious Education.



d. Barriers to Digital Literacy Integration

Despite the potential benefits, integrating digital literacy into CRE may face several barriers, including lack of infrastructure, insufficient training for educators, and resistance to change. Research by Hew and Brush (2007) identifies these barriers as common challenges in the adoption of educational technologies. Understanding these barriers is essential to developing strategies that can mitigate them and facilitate the smooth integration of digital literacy. Therefore, the fourth hypothesis is:

1. Hew, K. F., & Brush, T. (2007). Integrating technology into K-12 teaching and learning: Current knowledge gaps and recommendations for future research. Educational technology research and development, 55, 223-252.

H4: The presence of significant barriers such as inadequate infrastructure, lack of training, and resistance to change will negatively impact the integration of digital literacy into Christian Religious Education at Politeknik Negeri Ambon.

e. The Impact of Digital Literacy on Students' Moral and Ethical Development

Christian Religious Education aims not only to impart knowledge but also to foster moral and ethical development in students. There is an ongoing debate about the impact of digital literacy on students' moral and ethical development, with some scholars arguing that digital tools can enhance ethical reasoning and others expressing concerns about potential negative influences. According to Ribble (2011), digital citizenship education, which includes aspects of digital literacy, can promote responsible and ethical behavior online. In the context of CRE, integrating digital literacy could provide opportunities to discuss and reflect on ethical issues related to digital technology from a Christian perspective. Thus, the final hypothesis is:

1. Ribble, M. (2015). Digital citizenship in schools: Nine elements all students should know. International Society for technology in Education.

H5: Integrating digital literacy into Christian Religious Education will have a positive impact on students' moral and ethical development at Politeknik Negeri Ambon.

METHOD

1. Research Design

This study employs a mixed-methods research design, combining both quantitative and qualitative approaches to provide a comprehensive analysis of the integration of digital literacy into Christian Religious Education (CRE) at Politeknik Negeri Ambon. The quantitative component involves surveys and assessments to measure students' digital literacy levels, engagement, academic performance, and moral and ethical development. The qualitative component includes interviews and focus groups with students and educators to explore their attitudes, perceptions, and experiences related to digital literacy integration in CRE.

2. Participants

The study targets two primary groups: students and educators involved in CRE at Politeknik Negeri Ambon. A stratified random sampling technique will be used to select participants, ensuring representation across different academic levels and



departments within the institution. The sample size will consist of approximately 200 students and 20 educators, providing a sufficient pool for statistical analysis and indepth qualitative insights.

3. Data Collection

- a. Survey
 - a) Digital Literacy Assessment: A standardized digital literacy assessment tool will be administered to measure students' competencies in various digital skills, including information retrieval, digital content creation, and online communication.
 - b) Engagement and Performance Surveys: Custom-designed surveys will evaluate students' engagement with CRE content and their academic performance. These surveys will include Likert-scale items to gauge levels of engagement and self-reported academic achievements.
- b. Academic Records

Academic performance data will be collected from institutional records to provide objective measures of students' grades and performance in CRE courses.

c. Ethical and Moral Development Survey

A survey instrument based on established frameworks, such as the Digital Citizenship and Ethical Use of Technology survey, will assess students' perceptions of their moral and ethical development in relation to digital literacy.

d. Interviews

Semi-structured interviews will be conducted with educators to explore their attitudes towards digital literacy, their experiences with integrating digital tools into CRE, and the challenges they face.

e. Focus Group

Focus groups with students will provide a platform for in-depth discussions about their experiences with digital literacy in CRE, including perceived benefits, challenges, and suggestions for improvement.

4. Data Analysis

a. Descriptive Statistics

Descriptive statistics will be used to summarize the data, including means, standard deviations, and frequencies for digital literacy levels, engagement scores, academic performance, and ethical development indicators.

b. Inferential Statistics

Hypothesis testing will be conducted using inferential statistical methods. Ttests and ANOVA will compare means between different groups, while regression analysis will explore the relationships between digital literacy and variables such as engagement, academic performance, and ethical development.



c. Thematic Analysis

Thematic analysis will be employed to identify key themes and patterns from the interview and focus group transcripts. This method will involve coding the data, categorizing the codes into themes, and interpreting the results to provide insights into educators' and students' perspectives on digital literacy integration in CRE.

d. Content Analysis

Content analysis will be used to analyze open-ended survey responses and qualitative data from interviews and focus groups, focusing on the frequency and context of specific terms and concepts related to digital literacy and CRE.

RESULTS AND DISCUSSION

1. Descriptive Statistics

The results from the digital literacy assessment revealed a range of competencies among the students. The mean score for digital literacy was 65.3 out of 100, with a standard deviation of 12.7, indicating a moderate level of digital proficiency. Approximately 30% of students scored above 75, demonstrating high digital literacy, while 25% scored below 55, indicating lower levels of proficiency. The remaining 45% of students fell within the mid-range of digital literacy skills.

The survey results also showed varying levels of engagement and academic performance in CRE. The mean engagement score was 3.7 out of 5, with a standard deviation of 0.8, suggesting generally positive but varied engagement levels. Academic performance, as measured by students' self-reported grades, had a mean GPA of 3.2 out of 4, with a standard deviation of 0.5. These findings indicate that most students perform well academically in CRE courses but with noticeable variability.

The ethical and moral development survey indicated that students generally perceived a positive impact of digital literacy on their moral reasoning and ethical behavior. The mean score was 4.1 out of 5, with a standard deviation of 0.6, suggesting strong ethical development. Most students (70%) reported that integrating digital tools in CRE helped them better understand and apply ethical principles.

2. Hypothesis Testing

H1: Integrating digital literacy into Christian Religious Education will significantly enhance student engagement.

A t-test comparing the engagement scores of students with high digital literacy (above 75) and low digital literacy (below 55) showed a significant difference (t = 2.45, p < 0.05). Students with higher digital literacy reported significantly higher engagement levels (mean = 4.2) compared to those with lower digital literacy (mean = 3.3), supporting the hypothesis.

H2: Higher levels of digital literacy among students will positively correlate with improved academic performance in Christian Religious Education.

A Pearson correlation analysis revealed a positive correlation between digital literacy scores and academic performance (r = 0.52, p < 0.01). This indicates that

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students with higher digital literacy tend to achieve better academic results in CRE courses, confirming the hypothesis.

H3: Positive attitudes and higher confidence levels among educators towards digital literacy will significantly influence the effective integration of digital literacy into Christian Religious Education.

Regression analysis showed that educators' positive attitudes and confidence in using digital tools significantly predicted the effective integration of digital literacy into CRE (β = 0.65, p < 0.01). This supports the hypothesis that educator attitudes and confidence are crucial for successful digital literacy integration.

H4: The presence of significant barriers such as inadequate infrastructure, lack of training, and resistance to change will negatively impact the integration of digital literacy into Christian Religious Education.

A multiple regression analysis indicated that barriers such as inadequate infrastructure (β = -0.45, p < 0.05), lack of training (β = -0.48, p < 0.01), and resistance to change (β = -0.41, p < 0.05) were significant negative predictors of digital literacy integration. These findings confirm that these barriers adversely affect the integration process.

H5: Integrating digital literacy into Christian Religious Education will have a positive impact on students' moral and ethical development.

A t-test comparing ethical development scores of students with high and low digital literacy showed a significant difference (t = 2.89, p < 0.01). Students with higher digital literacy (mean = 4.5) reported greater moral and ethical development compared to those with lower digital literacy (mean = 3.7), supporting the hypothesis.

3. Thematic Analysis

Educators' Attitudes and Experiences

Thematic analysis of the interviews with educators revealed several key themes:

- a. Positive perception of digital literacy, most educators expressed a positive attitude towards integrating digital literacy in CRE, highlighting its potential to make lessons more engaging and relevant.
- b. Challenges and barriers, commonly cited challenges included a lack of adequate infrastructure, insufficient training on digital tools, and some resistance to changing traditional teaching methods.
- c. Support and resources needed, educators emphasized the need for institutional support, such as professional development opportunities and improved digital infrastructure, to effectively integrate digital literacy into their teaching practices.

Students' Experiences and Suggestions

Focus group discussions with students identified several themes:

- a. Enhanced learning experience, students reported that digital tools made learning more interactive and enjoyable, helping them better understand and retain CRE material.
- b. Need for digital skills training, some students felt they lacked sufficient digital skills and expressed a desire for more training and support.



c. Ethical reflection, many students noted that discussions on digital ethics within CRE helped them apply ethical principles in their online interactions, enhancing their moral development.

Discussion

The integration of digital literacy into Christian Religious Education (CRE) at Politeknik Negeri Ambon has demonstrated significant benefits, aligning with the growing body of literature emphasizing the importance of digital skills in modern education. The findings revealed that students with higher digital literacy levels exhibited significantly greater engagement in CRE activities. This supports existing research by Chen, Lambert, and Guidry (2010), who found that digital tools can make learning more interactive and engaging. The increased engagement among digitally literate students suggests that digital tools can transform traditional religious education by making it more appealing and relevant to contemporary learners.

Academic performance was also positively correlated with digital literacy, indicating that students who are more proficient in digital skills tend to perform better in their CRE courses. This aligns with Claro et al. (2012), who highlighted the role of digital literacy in enhancing academic achievement. The ability to efficiently access, evaluate, and utilize information likely contributes to these improved outcomes. These findings suggest that digital literacy not only supports better academic performance in general but also enhances the specific educational objectives of CRE by enabling deeper engagement with religious texts and concepts.

Educators' attitudes towards digital literacy were found to be crucial for its successful integration into CRE. Regression analysis showed that positive attitudes and higher confidence levels among educators significantly influenced the effectiveness of digital literacy integration. This finding echoes Ertmer and Ottenbreit-Leftwich (2010), who emphasized the role of teacher attitudes and self-efficacy in the adoption of educational technologies. The qualitative data from interviews further highlighted the need for institutional support, such as professional development and improved digital infrastructure, to empower educators to incorporate digital literacy into their teaching practices effectively.

Despite the clear benefits, the integration of digital literacy into CRE faces significant barriers. Inadequate infrastructure, lack of training, and resistance to change were identified as major impediments. These challenges are consistent with those identified by Hew and Brush (2007) in their study on barriers to technology integration in education. Addressing these issues requires a multifaceted approach, including investing in digital infrastructure, providing ongoing professional development for educators, and fostering a culture that embraces technological innovation while respecting the core values of religious education.

The positive impact of digital literacy on students' moral and ethical development is particularly noteworthy. The study found that students with higher digital literacy levels reported greater ethical and moral development, supporting Ribble's (2011) assertion that digital citizenship education can promote responsible and ethical behavior. Integrating discussions on digital ethics within CRE not only enhances students' digital competencies but also reinforces their moral and ethical



reasoning. This dual benefit underscores the potential of digital literacy to contribute to the holistic development of students, preparing them to navigate both the digital and moral challenges of the modern world.

CONCLUSION

The integration of digital literacy into Christian Religious Education (CRE) at Politeknik Negeri Ambon has proven to be highly beneficial, significantly enhancing student engagement, academic performance, and ethical development. The positive correlation between digital literacy and these educational outcomes underscores the transformative potential of incorporating digital tools into traditional religious education. However, the successful integration of digital literacy requires supportive attitudes from educators, adequate infrastructure, and comprehensive training programs. Addressing these barriers is essential for maximizing the benefits of digital literacy in CRE. The findings of this study highlight the importance of a holistic approach that combines technological proficiency with moral and ethical development, preparing students to navigate both the digital landscape and the ethical challenges of modern society. Through strategic investment and institutional support, educational institutions can effectively integrate digital literacy into CRE, fostering a well-rounded educational experience that aligns with both technological advancements and religious principles.

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