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Building Hypercontent-based Teaching Modules: Improving Christian Education Learning Outcomes for Adolescents

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Article History

Received: 28.07.2023 Accepted: 08.09.2023 Published: 30.09.2023 Abstract: This study aims to develop and evaluate a hypercontent-based instructional module for the Christian Religious Education for Adolescents (PAK Remaja) course at IAKN Tarutung, Indonesia. In response to the digital transformation in higher education and the learning needs of digital-native students, the research applies a Research and Development (R&D) methodology using the Borg and Gall model. The module integrates multimedia elements—such as videos, audio, hyperlinks, and interactive content—into a nonlinear structure that supports flexible, student-centered learning. The development process included a needs assessment, content design aligned with theological and pedagogical standards, expert validation, and multiple stages of field testing involving fourth-semester students enrolled in the PAK program. The results demonstrate that the module significantly improves student motivation, comprehension, and engagement. Students reported high satisfaction with the interactivity and accessibility of the learning materials, and assessment data indicated marked improvement in academic performance. Furthermore, the module received positive evaluations from content and media experts, who emphasized its alignment with both digital pedagogy and Christian educational values. The study concludes that hypercontent-based learning is not only feasible but also effective in enhancing theological education. It offers a practical model for integrating faith-based instruction with technological innovation, thereby fostering both cognitive and spiritual development. This research contributes to the ongoing transformation of religious education in the digital era and supports the advancement of more inclusive, interactive, and impactful learning environments in Christian higher education.

Keywords: Christian Religious Education, Hypercontent, Digital Pedagogy, Faith-Based Learning.

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Introduction

The accelerating wave of digital transformation in the field of education has dramatically reshaped how learning materials are designed, delivered, and consumed. In this rapidly evolving landscape, traditional pedagogical models are being challenged by the demands of a new generation of learners who are more accustomed to multimedia content and interactive digital environments. Consequently, educators are compelled to develop more innovative, responsive, and student-centered teaching strategies that align with the realities of the digital age. This shift is especially critical for value-based and character-centered subjects such as Christian Religious Education (commonly known in Indonesia as Pendidikan Agama Kristen, or PAK), which often deal with abstract concepts and moral principles that require meaningful engagement and personal reflection. The emergence of the Society 5.0 paradigm—characterized by the fusion of

cyberspace and physical space through technologies such as artificial intelligence, big data, and the Internet of Things—presents both challenges and opportunities for religious and character education. In the context of Society 5.0, educational goals are no longer limited to the transfer of knowledge but extend to the cultivation of holistic individuals who are spiritually grounded, morally responsible, and technologically literate. Higher education institutions, particularly those with a religious or theological orientation, are increasingly expected to contribute not only to the academic development of students but also to their spiritual maturity and ethical competence. This dual expectation calls for innovative instructional models that not only deliver theological content effectively but also foster active internalization of spiritual and moral values.

At Institut Agama Kristen Negeri (IAKN) Tarutung, one of Indonesia's leading Christian theological institutions, these demands are being felt acutely, especially in the teaching of PAK



Remaja—a course that focuses on the spiritual formation of adolescents. Despite the recognized importance of this subject in shaping future Christian educators and leaders, the current instructional approaches remain largely conventional and text-centric. The modules used in PAK Remaja tend to be static and monotonous, heavily reliant on printed textual content with minimal multimedia integration. This lack of variety and interactivity limits student engagement, often resulting in low levels of motivation, participation, and comprehension.

Such conditions are particularly problematic when considering the characteristics of today's student population, commonly referred to as "digital natives." These learners are not only fluent in the use of digital technologies but also exhibit distinct cognitive and behavioral patterns shaped by continuous exposure to interactive media. They prefer visual stimuli, quick access to information, collaborative learning environments, and practical applications of knowledge. As a result, traditional, lecture-based methods are often perceived as disengaging and ineffective. To address this pedagogical gap, there is an urgent need to develop instructional materials that resonate with the digital sensibilities of contemporary learners.

One promising approach is the integration of hypercontent-based modules into the PAK curriculum. Hypercontent refers to learning materials that incorporate various forms of digital media—such as audio, hyperlinks, infographics, and interactive simulations-into a coherent instructional framework. These modules allow for nonlinear access to information, enabling learners to navigate content according to their own interests, pace, and learning styles. Furthermore, hypercontent fosters active learning by inviting students to explore, reflect, and apply theological concepts in dynamic and contextually relevant ways. When applied to religious education, such an approach can make abstract doctrinal teachings more accessible, relatable, and impactful. Despite the potential of hypercontent-based learning, its application in theological education—particularly in Indonesian Christian colleges—remains underexplored. There is a noticeable gap between the rapid development of educational technology and its practical implementation in religious instruction. This disconnection is partly due to the perception that theological education should preserve traditional modes of teaching and partly due to the lack of locally developed digital learning resources tailored to theological content. Bridging this gap requires a systematic effort to design, develop, and evaluate digital instructional materials that uphold theological integrity while embracing technological innovation.

In response to these challenges, the present study seeks to develop a hypercontent-based learning module for the PAK Remaja course at IAKN Tarutung and evaluate its feasibility and effectiveness in enhancing student learning outcomes. Specifically, the study aims to determine whether the module can increase student motivation, improve content comprehension, and support the internalization of Christian values through interactive digital means. It also explores how such a module can serve as a model for future innovations in theological education within the Indonesian context. This research is situated within the broader discourse on digital pedagogy in faith-based education. It contributes to ongoing efforts to modernize religious instruction without compromising its spiritual depth. By leveraging the power of digital media, this study aspires to transform the way Christian values are taught and learned, making them more engaging, experiential, and applicable in the

lives of students. In doing so, it provides a strategic response to the educational imperatives of Society 5.0 while reaffirming the enduring relevance of Christian education in a digitally mediated world.

Methods

This study employed a Research and Development (R&D) methodology, adopting the model proposed by Borg and Gall, which is widely recognized for its systematic and iterative process in educational product development. The R&D approach was chosen to facilitate the design, development, testing, and refinement of a hypercontent-based instructional module tailored for the Christian Religious Education (PAK) course on adolescent spirituality at IAKN Tarutung. The Borg and Gall model consists of ten interrelated stages: (1) research and information gathering, (2) planning, (3) development of the preliminary product, (4) initial field testing, (5) revision of the main product, (6) main field testing, (7) operational product revision, (8) operational field testing, (9) final product revision, and (10) dissemination and implementation. Each stage is strategically designed to ensure that the product developed is theoretically grounded, empirically validated, and pedagogically effective.

In the first stage, comprehensive data were collected through literature reviews, curriculum analysis, and needs assessments involving students and instructors. This provided a foundation for identifying the core issues affecting engagement in the PAK Remaja course and for determining the specific features required in a hypercontent-based module. In the planning phase, learning objectives were aligned with course competencies and digital pedagogy principles. This step included the preparation of content outlines, selection of appropriate media elements (e.g., videos, hyperlinks, QR codes), and initial storyboarding of the module.

The initial prototype was developed in the third phase, incorporating multimedia components and structured into thematic units relevant to adolescent spiritual development. The product was then subjected to a small-scale initial field test involving a limited number of students and faculty. Feedback from this phase was used to revise the module in terms of interface design, content clarity, media functionality, and overall instructional coherence. The revised product underwent a more extensive main field test with a broader sample of fourth-semester students enrolled in the PAK program. This phase aimed to evaluate the effectiveness and user experience of the module in a real classroom context. The research participants consisted of students from the fourth semester of the Christian Religious Education Department at IAKN Tarutung who had completed the PAK Remaja course. These participants were considered appropriate due to their prior exposure to the course content, which enabled them to critically evaluate the newly developed module. In addition to students, several stakeholders contributed to the evaluation process, including subject matter experts, instructional media specialists, and course instructors. Each group assessed the module based on specific criteria: content accuracy, pedagogical alignment, technological usability, and aesthetic appeal.

Data collection techniques included structured observations, indepth interviews, questionnaire-based surveys, and documentation of user interactions with the module. Questionnaires were administered using a Likert scale format and distributed to students and expert evaluators to assess both the feasibility and effectiveness of the hypercontent module. Descriptive qualitative methods were used to analyze feedback and narrative responses, while quantitative data were processed using simple statistical techniques to summarize patterns and trends in learner responses. This combination of qualitative and quantitative analysis allowed for a comprehensive understanding of the module's strengths, weaknesses, and potential for broader implementation.

Results and Discussion

The development and implementation of a hypercontent-based module for the Christian Religious Education (PAK) course for adolescents at IAKN Tarutung presents an innovative approach that addresses several pedagogical challenges in contemporary theological education. This study utilized a Research and Development (R&D) method adapted from Borg and Gall, focusing on producing a viable learning module that incorporates the principles of hypercontent: hypertext, hypermedia, and hyperlinks. The module aimed not only to transmit knowledge but to enhance student motivation, autonomy, and digital literacy through a non-linear, interactive digital platform. The preliminary analysis revealed several pressing problems with the traditional PAK learning model. Prior to the development of the hypercontent module, the course relied heavily on printed materials, dictated notes, and static lecture formats that limited learner engagement and self-directed learning. These limitations were evident in students' declining interest, lack of participation, and minimal retention of course material. In response to this issue, the research team identified the need for a digital module that aligned with the learning habits and technological environment of today's university students.

The first stage of the research involved a comprehensive needs analysis, conducted through observations, interviews, and document studies. The findings indicated a significant gap between the learning expectations of students and the resources available to them. Most students expected flexible, accessible, and visually rich learning materials that they could interact with both synchronously and asynchronously. These insights laid the groundwork for the initial design of the hypercontent-based module. The development of the module underwent several iterations based on formative evaluations. The first prototype was tested with a limited group of students who provided feedback on its usability, clarity, and content structure. Adjustments were made to ensure each unit was self-contained and accessible from any entry point, a fundamental characteristic of hypercontent materials. Each learning unit was composed of key objectives, digital readings, video links (via QR codes), interactive quizzes, and reflective activities. The content was enriched with scripture-based discussions and real-life adolescent scenarios to contextualize the theological concepts.

One of the most significant features of the hypercontent module was its integration with open-access digital tools such as BookCreator and FlippingBook. These tools allowed the inclusion of various media formats (text, video, audio, graphics) into the modules, promoting multimodal learning experiences. Moreover, the hyperlinking of key terms and external references enabled students to explore deeper layers of content at their own pace, reinforcing the principles of student-centered learning and inquiry-based exploration. To evaluate the effectiveness of the module, a series of field trials were conducted involving 42 fourth-semester students of the PAK Education Study Program. Pre-test and post-test assessments revealed significant improvements in students' cognitive understanding of adolescent Christian education. The

average final scores reached 85, surpassing the minimum competency standard (KKM) of 75. Notably, 62% of students achieved an A grade, while the remaining 38% earned a B grade, indicating that all participants met or exceeded the learning targets.

Beyond academic performance, qualitative data from student feedback highlighted an increase in motivation and engagement. Students reported feeling more in control of their learning and appreciated the module's accessibility and visual appeal. Many noted that the inclusion of multimedia components, such as video sermons and animated Bible stories, helped them better understand abstract theological concepts. Furthermore, the module's design facilitated independent study and allowed students to revisit complex materials multiple times without relying solely on lecturer explanations. The module was also assessed by experts in instructional media and Christian education. Evaluators praised the module for its alignment with current educational standards and its capacity to integrate Biblical values with digital pedagogy. They emphasized that the use of hypercontent not only addressed technological gaps but also supported character formation by linking academic learning with spiritual reflection.

However, the study also identified several limitations and challenges. Some students initially struggled with the module's non-linear structure, having been accustomed to traditional, sequential learning formats. Additionally, inconsistent internet access and limited digital literacy among some participants occasionally hindered full utilization of the module's features. These obstacles underscore the need for ongoing digital training and infrastructure support within the institution. Another significant discussion point lies in the module's potential for scalability and adaptation. The hypercontent-based module, though developed for a specific course, holds promise for broader implementation across other theological subjects. Its modular structure allows for easy customization and thematic expansion, making it suitable for use in different cultural and denominational contexts. As such, it represents a model of contextualized, faithintegrated, and future-ready Christian education.

Moreover, the study reinforces the importance of integrating local theological perspectives and practices into digital learning tools. By including Indonesian Christian youth issues, local church activities, and cultural narratives in the content, the module ensures relevance and authenticity. This alignment with contextual theology strengthens the connection between academic learning and lived Christian experience, fostering deeper reflection and application of Biblical values in daily life. In terms of pedagogical contribution, this research demonstrates that digital transformation in theological education must go beyond the digitization of text. It must engage learners cognitively, affectively, and spiritually through immersive and interconnected learning environments. The hypercontent model exemplifies how instructional design can be leveraged to cultivate holistic Christian formation by blending technology with spiritual purpose.

Finally, the findings support the call for continuous curriculum development and faculty capacity-building. Lecturers must be equipped with the necessary skills and mindset to design, implement, and evaluate digital learning experiences that reflect both pedagogical excellence and theological integrity. Institutional support in terms of training, technical resources, and collaborative culture will be essential for sustaining the innovation introduced by this module. The development of a hypercontent-based module for

the PAK Remaja course at IAKN Tarutung demonstrates the feasibility and effectiveness of integrating advanced digital content structures into religious higher education. The module not only improved student learning outcomes but also fostered motivation, independent learning, and spiritual engagement. Its success suggests a promising path forward for Christian educational institutions aiming to modernize their curricula while remaining rooted in Biblical truth and pedagogical soundness.

Conclusion

The development of a hypercontent-based module for the Christian Religious Education (PAK) course for adolescents at IAKN Tarutung has proven to be both feasible and effective in addressing the core objectives of the research. The primary goal of this initiative—to create a learning resource that is pedagogically sound, technologically relevant, and theologically grounded—has been successfully achieved. The module not only enhanced student motivation and engagement but also significantly improved learning outcomes. These results underscore the critical role of instructional innovation in theological education, particularly in responding to the learning needs and preferences of digital-native students. One of the most important achievements of this research lies in its demonstration that theological content can be effectively delivered through digital platforms without diminishing its spiritual depth or doctrinal integrity. By utilizing the principles of hypercontent-interactivity, non-linearity, multimedia integration, and accessibility-the module created a dynamic learning environment that supports self-paced exploration, critical reflection, and the internalization of Christian values. This approach not only aligns with modern pedagogical theories but also resonates with the biblical mandate to make religious teachings accessible and impactful in every generation.

Furthermore, the success of this module holds broader implications for the future of Christian education in Indonesia and beyond. In an era defined by rapid technological change and the increasing digitalization of learning, educational institutions must adapt their methods and materials to remain relevant and effective. This research provides a model for how faith-based institutions can integrate educational technology into their curricula without compromising their spiritual mission. The hypercontent-based approach offers a sustainable and adaptable framework that can be applied to a wide range of religious and character education contexts. Equally significant is the module's potential to inspire greater creativity and innovation among lecturers. By engaging with digital tools and instructional design strategies, educators are encouraged to rethink their teaching practices and adopt more learner-centered approaches. The findings of this study highlight the importance of ongoing professional development and institutional support in building faculty capacity for digital pedagogy. As educators become more fluent in the use of technology, they are better positioned to create learning experiences that are not only informative but also transformative. The hypercontent-based module developed in this study stands as a powerful example of how digital innovation can be harmonized with theological education to meet the challenges of contemporary learning. It validates the hypothesis that technology, when thoughtfully integrated, can enrich religious instruction, deepen student engagement, and foster the formation of values and character. This research contributes meaningfully to the discourse on educational reform within Christian higher education and serves as a practical reference for institutions seeking to enhance their

curriculum in a digitally-driven world. Moving forward, this model invites further exploration, replication, and refinement to ensure that Christian education continues to thrive in both content and delivery for generations to come.

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