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### **DIGITAL LITERACY AND ITS IMPACT ON LANGUAGE LEARNING IN PRIMARY SCHOOLS**

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#### **ABSTRACT**

*The rapid advancement of information and communication technology has made digital literacy an essential competence in contemporary education. The ability to access, evaluate, and utilize credible information sources has become increasingly critical in response to the accelerated growth of digital technologies. In the context of education, digital literacy encompasses the capacity to access, analyze, create, reflect on, and act upon information using digital devices, multiple modes of expression, and diverse communication strategies. This article presents a conceptual and literature-based analysis of the impact of digital literacy on language learning in primary schools, as well as the challenges associated with its implementation. The findings indicate that digital literacy contributes positively to language learning by supporting instructional processes, enabling learners to distinguish valid and relevant learning resources, and encouraging teachers to develop more innovative and productive digital learning media. However, the effective integration of digital literacy in language instruction requires teachers not only to master digital tools and software but also to develop advanced competencies, including content production skills, visual literacy, hypertextual navigation, information evaluation, and socio-emotional skills. Overall, digital literacy plays a crucial role in enhancing language learning and fostering essential twenty-first-century skills among primary school students.*

**Keywords:** digital literacy, language learning, educational technology

#### **ABSTRAK**

Perkembangan teknologi informasi dan komunikasi yang pesat menjadikan literasi digital sebagai kompetensi esensial dalam pendidikan masa kini. Kemampuan untuk mengakses, mengevaluasi, dan memanfaatkan sumber informasi yang kredibel menjadi semakin penting seiring dengan akselerasi teknologi digital. Dalam konteks pendidikan, literasi digital mencakup kemampuan untuk mengakses, menganalisis, menciptakan, merefleksikan, dan menggunakan informasi melalui perangkat digital, beragam mode ekspresi, serta strategi komunikasi yang bervariasi. Artikel ini bertujuan untuk menganalisis secara konseptual dan berbasis kajian pustaka pengaruh literasi digital terhadap pembelajaran bahasa di sekolah dasar serta tantangan dalam penerapannya. Hasil kajian menunjukkan bahwa literasi digital memberikan kontribusi positif terhadap pembelajaran bahasa, antara lain dengan mendukung proses pembelajaran, membantu siswa membedakan sumber belajar yang valid dan relevan, serta mendorong guru untuk lebih inovatif dan produktif dalam mengembangkan media pembelajaran digital. Namun demikian, implementasi literasi digital dalam pembelajaran bahasa menuntut guru tidak hanya menguasai penggunaan perangkat dan aplikasi digital, tetapi juga memiliki kompetensi lanjutan, seperti keterampilan produksi konten, literasi visual, navigasi

hipertekstual, evaluasi informasi, dan keterampilan sosial-emosional. Secara keseluruhan, literasi digital memiliki peran strategis dalam meningkatkan kualitas pembelajaran bahasa serta menumbuhkan keterampilan abad ke-21 pada siswa sekolah dasar.

**Kata Kunci:** *literasi digital, pembelajaran bahasa, teknologi pendidikan*

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## INTRODUCTION

The rapid development of digital technology has significantly transformed various aspects of human life, including the ways people communicate, access information, work, and learn. In the field of education, technological advancement has reshaped teaching and learning practices by enabling flexible access to learning resources, supporting distance education, and fostering more interactive learning environments. Digital media and technology now play a crucial role in facilitating educational processes, particularly in language learning at the primary school level.

In language education, digital technology provides diverse learning resources such as digital textbooks, instructional videos, animations, and interactive applications that can enhance students' engagement and motivation. The integration of internet-based resources also allows teachers and students to access authentic language materials and communicate beyond the classroom context. As a result, language learning becomes more contextual, dynamic, and learner-centered.

Along with the rapid expansion of digital resources, the ability to effectively navigate, evaluate, and utilize digital information has become increasingly important. This condition highlights the urgency of digital literacy as a fundamental competence for both teachers and students. Digital literacy is not limited to the technical ability to operate digital devices but also encompasses critical thinking, information evaluation, content creation, communication, and ethical awareness in digital environments. According to the Royal Society (2012), digital literacy includes the ability to use digital tools confidently, safely, and efficiently, as well as the capacity to create and manage digital content.

Previous studies have emphasized that digital literacy plays a vital role in supporting teaching and learning processes. Jimoyiannis and Gravani (2011) argue that digital literacy within the curriculum helps learners acquire technical skills, utilize digital media to solve real-life problems, understand the social impacts of digital media, and develop positive attitudes toward technology. Similarly, Harjono (2018) highlights that digital literacy is closely related to language learning, as it supports learners in accessing information, developing critical reading skills, and producing meaningful language outputs in digital contexts.

Despite its potential benefits, the

implementation of digital literacy in primary language education is not without challenges. Teachers are required to adapt to continuous technological changes and to integrate digital tools effectively into their instructional practices. This integration demands not only technical proficiency but also advanced competencies such as content production skills, visual literacy, hypertextual navigation, information evaluation, and socio-emotional skills. Moreover, limited infrastructure, insufficient training, and varying levels of teachers' digital competence often hinder the effective application of digital literacy in classroom settings.

Based on these considerations, this article aims to analyze the impact of digital literacy on language learning in primary schools and to explore the challenges faced in its implementation. Through a conceptual and literature-based approach, this study seeks to provide insights into the role of digital literacy in enhancing language learning and supporting the development of twenty-first-century skills among primary school students.

## METHOD

This study employed a qualitative approach using a literature-based and conceptual analysis design. The research did not involve experimental procedures or direct field data collection but focused on examining and synthesizing relevant theories, empirical studies, and policy documents related to digital literacy and language learning in primary education.

### Data Sources

The data sources consisted of academic publications, including journal articles, books, research reports, and official documents related to digital literacy, educational technology, and language learning. The literature was obtained from reputable databases and academic sources, such as Google Scholar, ERIC, and other open-access educational journals. Priority was given to publications that discussed digital literacy frameworks, the integration of digital technologies in language learning, and challenges faced by teachers in primary school contexts.

### Data Collection Procedure

The literature selection process involved several stages. First, relevant keywords such as *digital literacy*, *language learning*, *primary education*, and *educational technology* were used to identify

potential sources. Second, the selected literature was screened based on its relevance to the research focus, publication credibility, and theoretical or empirical contribution. Third, the selected sources were carefully reviewed to extract key concepts, findings, and arguments related to the role and impact of digital literacy in language learning.

#### Data Analysis

Data analysis was conducted through a qualitative content analysis technique. The collected literature was analyzed by identifying recurring themes, patterns, and relationships concerning the impact of digital literacy on language learning and the challenges of its implementation in primary schools. The findings from various sources were then compared, interpreted, and synthesized to develop a comprehensive understanding of digital literacy practices and their implications for language education.

#### Trustworthiness of the Study

To enhance the credibility and trustworthiness of the analysis, the study relied on peer-reviewed and widely cited sources. Triangulation was achieved by comparing perspectives from different authors and frameworks. Additionally, careful interpretation and systematic organization of the literature were applied to minimize bias and ensure consistency in the analysis.

## RESULTS

### 1. The General Impact of Digital Technology on Daily Life and Education

The findings of the literature analysis indicate that digital technology has significantly transformed daily human activities, including communication, information access, work practices, and learning processes. In the educational context, digital technology facilitates distance learning, enhances access to information, and enables more flexible and interactive instructional models. These developments have reshaped traditional classroom practices and expanded learning opportunities, particularly in primary education.

### 2. The Role of Digital Technology in Language Learning

Digital technology plays a crucial role in supporting language learning by providing diverse and engaging learning resources. The use of digital media, such as instructional videos, animations, digital textbooks, and online platforms, enables teachers to design more attractive and effective language learning materials. These digital tools

allow students to access language input in various formats and contexts, which supports the development of reading, writing, listening, and speaking skills.

Moreover, internet-based applications and communication tools, including email, blogs, and instant messaging platforms, have been widely used to promote active learning and interaction in language classrooms. These tools encourage students to practice language use authentically, collaborate with peers, and receive timely feedback from teachers.

### 3. The Importance of Digital Literacy in Language Education

The analysis reveals that digital literacy is a fundamental competence that must be developed among both teachers and students. Digital literacy encompasses not only the technical ability to use digital devices and software but also the capacity to critically evaluate information, create digital content, and communicate responsibly in digital environments. Several studies emphasize that digital literacy is as essential as traditional literacy skills, such as reading and writing, in supporting effective language learning.

Students with adequate digital literacy skills are better equipped to identify reliable learning resources, interpret digital texts, and produce meaningful language outputs. Likewise, teachers with strong digital literacy are more capable of integrating technology into language instruction and designing learning activities that foster critical thinking and creativity.

### 4. Dimensions of Digital Literacy

The reviewed literature identifies multiple dimensions of digital literacy that are relevant to language learning. These include visual literacy, which involves understanding graphical and visual representations; reproduction literacy, which refers to the ability to create new content from existing digital materials; branching literacy, which enables learners to navigate non-linear information structures; and information literacy, which focuses on evaluating the credibility and relevance of digital information. These dimensions collectively support students' language comprehension and production in digital contexts.

### 5. Digital Competence Frameworks in Language Learning

Digital literacy frameworks, such as those proposed by the Department of e-Learning and Hobbs (2010), further highlight key competencies required in digital learning environments. These

competencies include information management, communication, content creation, security awareness, and ethical responsibility. The findings suggest that these frameworks provide useful guidance for integrating digital literacy into language education and for developing students' twenty-first-century skills.

## 6. Challenges in Implementing Digital Literacy in Primary Language Education

Despite its benefits, the implementation of digital literacy in primary language learning faces several challenges. Teachers often encounter difficulties related to limited digital infrastructure, inadequate training, and varying levels of digital competence. Additionally, the rapid pace of technological change requires continuous professional development to ensure effective technology integration. These challenges underscore the need for systematic support, including teacher training programs, institutional policies, and adequate technological resources.

## DISCUSSIONS

The findings of this study reinforce the view that digital literacy plays a pivotal role in enhancing language learning in primary education. The integration of digital tools and resources enables learning experiences that are more interactive, flexible, and learner-centered. This supports previous research emphasizing that digital technology can facilitate meaningful language input and output, particularly when learners are exposed to multimodal texts and authentic communication contexts.

The positive influence of digital literacy on language learning is evident in several aspects. First, digital literacy supports the learning process by providing students with access to diverse learning materials, such as digital texts, videos, and interactive applications. These resources accommodate different learning styles and promote higher levels of engagement, which are essential for effective language acquisition at the primary level. This finding aligns with Jimoyiannis and Gravani (2011), who argue that digital literacy helps learners develop technical competence and apply digital tools to solve learning-related problems.

Second, digital literacy enhances students' ability to critically evaluate digital information. In language learning, this skill is particularly important, as students are increasingly exposed to

vast amounts of online content of varying quality. The ability to distinguish reliable, relevant, and credible sources enables students to develop critical reading skills and to engage more meaningfully with language texts. This supports the notion that digital literacy extends beyond technical skills to include critical thinking and information evaluation, as highlighted by Harjono (2018).

Third, digital literacy encourages teachers to become more innovative and productive in designing instructional materials. Teachers with adequate digital competence are better equipped to create digital learning media, integrate multimedia resources, and design project-based learning activities that foster language use in authentic contexts. This finding is consistent with Hobbs' (2010) framework, which emphasizes content creation, collaboration, and ethical participation as core components of digital and media literacy.

Despite these benefits, the discussion also reveals several challenges in implementing digital literacy in primary language education. One major challenge is the varying level of teachers' digital competence. While some teachers are able to effectively integrate technology into their teaching, others struggle due to limited training, lack of confidence, or insufficient institutional support. This issue is further compounded by unequal access to digital infrastructure, particularly in schools with limited technological resources.

Furthermore, the implementation of digital literacy requires teachers to develop advanced skills beyond basic technological proficiency. These include visual literacy, hypertextual navigation, content production, and socio-emotional skills related to responsible digital participation. Without systematic professional development and clear pedagogical guidance, teachers may find it difficult to fully integrate digital literacy into language instruction.

Overall, the discussion highlights that digital literacy should be viewed not merely as a technical skill but as a comprehensive educational competence that supports language learning and the development of twenty-first-century skills. Effective integration of digital literacy in primary language education requires collaboration among teachers, schools, parents, and policymakers to ensure adequate training, infrastructure, and pedagogical support.

## CONCLUSION

This study concludes that digital literacy plays a crucial role in supporting and enhancing language learning in primary schools. The integration of digital tools and resources enables more interactive, flexible, and meaningful learning experiences, allowing students to develop language skills alongside essential digital competencies. Digital literacy supports students in accessing diverse learning materials, critically evaluating information, and producing language in authentic digital contexts.

The findings also highlight that digital literacy contributes to teachers' instructional practices by encouraging creativity and innovation in the development of digital learning media. However, the effective implementation of digital literacy in primary language education requires more than basic technological skills. Teachers must possess advanced competencies, including content creation, visual literacy, information evaluation, hypertextual navigation, and socio-emotional skills related to responsible digital engagement.

Despite its significant benefits, several challenges remain, particularly in relation to teachers' digital competence, infrastructure availability, and access to continuous professional development. Therefore, systematic support from educational institutions and policymakers is essential to ensure that digital literacy is effectively integrated into language learning at the primary level.

Overall, digital literacy should be positioned as a fundamental educational competence that not only enhances language learning outcomes but also fosters twenty-first-century skills among primary school students. Future studies are encouraged to explore empirical evidence on the implementation of digital literacy in classroom practices and to examine its long-term impact on language development in diverse educational contexts.

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