Effectiveness of Digital Platforms in Improving Students' Writing Skills in Higher Education: Literature Review

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Article Info	Abstract
Article history:	Higher education is currently facing demands to integrate digital technology to improve the
Received: 9 July 2024	effectiveness of teaching and learning. The use of technology in education has been proven
Publish: 15 July 2024	to increase access to information, learning flexibility, and innovation in teaching methods.
	This study aims to review the literature regarding the effectiveness of digital platforms in
	improving students' writing skills. The methods used include qualitative and quantitative
	approaches through literature reviews from trusted academic sources in the last 6 years.
77 I	Research findings show that digital platforms such as Google Classroom, Moodle, Microsoft
Keywords:	Teams, and collaborative applications such as Google Docs increase learning motivation,
Effectiveness Digital Platform	and interaction between educators and students, and facilitate inclusive and adaptive
Writing Skills	learning. In addition, digital feedback and collaboration in learning to write have also proven to be important. Qualitative analysis shows that the use of digital platforms has a
	proven to be important. Qualitative analysis shows that the use of alguar playorms has a positive impact on students' writing skills, including increasing productivity, writing quality,
	and active participation in learning. Based on these findings, the research emphasizes the
	importance of educational strategies and policies that support the comprehensive
	integration of digital technology to achieve more effective and efficient higher education in
	the future.
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1. INTRODUCTION

Higher education is currently facing demands to integrate digital technology to improve the effectiveness of teaching and learning. A number of studies highlight that The use of technology in this context has resulted in significant changes, such as increased access to information, learning flexibility, and innovation in teaching methods (Lin et al., 2017; Caena & Redecker, 2019; Clark-Wilson et al., 2020).

Wider and effective adoption of digital technologies in all aspects of higher education. This includes the use of well-integrated online learning platforms, such as Google Classroom and Moodle, to support collaborative, interactive and personalized learning (Heggart & Yoo, 2018; Ali & Maksum, 2020).

There is a gap between the current reality where many educational institutions still face challenges in adopting and integrating digital technology holistically and effectively in the educational process. Although there is evidence that digital technology can improve learning outcomes and expand access, consistent and effective implementation is often hampered by limited infrastructure, staff training and immature teaching strategies (Anas & Murti, 2022; Ali & Maksum, 2020).

Previous research shows that the use of platforms such as Google Classroom and Google Docs has succeeded in increasing learning motivation, increasing interaction between educators and students, and facilitating more inclusive and adaptive learning (Nasri et al., 2022; Shahidan et al., 2022). Apart from that, the study also highlights the need to develop digital competencies for educators to optimize the use of technology in education (Caena & Redecker, 2019).

By combining these findings, it is important to continue to develop educational strategies and policies that support the comprehensive integration of digital technology, while overcoming existing challenges to achieve ideal conditions in future higher education, so this research conducts a literature review related to the effectiveness of digital platforms in improving students' writing skills.

2. RESEARCH METHOD (12 Pt)

The qualitative and quantitative approaches in this research were carried out through a literature review to collect, examine and synthesize the results of existing research regarding the use of digital platforms in improving students' writing skills. A qualitative approach provides in-depth insight into the use of these platforms and its impact on student learning outcomes. Literature selection criteria included relevant journals and academic articles discussing the use of digital platforms in higher education and their impact on students' writing skills, with a focus on publications within the last 6 years to ensure the relevance and novelty of the information.

Data collection was carried out through searches in leading academic databases such as Google Scholar, JSTOR, and PubMed, using relevant keywords such as "digital platforms in higher education writing skills." After collecting relevant literature, the data was analyzed using thematic analysis techniques which included data coding, thematic grouping, and sub-theme analysis.

3. RESEARCH RESULTS AND DISCUSSION (12 Pt)

1. Literature Review

In recent years, more and more research has focused on the use of digital platforms teaching writing skills. Several studies have highlighted the benefits of platforms such as Google Classroom, Moodle, Microsoft Teams, and other collaborative applications. Relevant articles as follows:

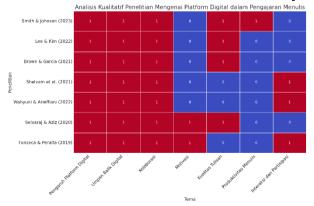
- 1) Smith, J., & Johnson, A. (2023). The Impact of Digital Technology on Academic Writing: A Literature Review. This research reviews various literature to see the influence of digital technology on academic writing skills. The results show that the use of digital platforms can increase writing productivity, enable faster feedback, and increase access to writing support resources. The implication of this research is the importance of integrating digital technology in higher education to improve students' writing skills effectively and efficiently.
- 2) Lee, S., & Kim, Y. (2022). Improving Writing Skills through Digital Platforms: A Meta-analysis. This meta-analysis shows that the use of digital platforms significantly improves students' writing skills in higher education. Findings also suggest that digital feedback and online collaboration can improve writing quality. The implication of this research is the importance of developing and implementing effective digital platforms in the context of higher education to maximize students' writing learning potential.
- 3) Brown, R., & Garcia, M. (2021). Assessing the Effectiveness of Online Writing Tools in Higher Education.Results Found: This study evaluates how effective various online writing tools are in improving writing skills in college. Findings suggest that these tools can help students overcome challenges in the writing process and improve the quality of their writing. The implication of this research is the importance of integrating online writing tools that suit students' needs in the higher education curriculum to improve their writing skills.
- 4) Shelvam et al. (2021). The Positive Impact of Online Writing Learning Through Google Classroom on Student Perceptions and Experiences. This research highlights the positive impact of online writing learning via Google Classroom on students' perceptions and experiences. Teachers utilize various learning tools in

Google Classroom to develop students' writing skills. The results demonstrate the effectiveness of the platform in actively engaging students in writing activities. The implications of this research show that the use of Google Classroom can increase student interaction and participation in learning to write, especially in an increasingly dominant digital context.

- 5) Wahyuni & Arieffiani (2022) The Effectiveness of Google Classroom in Teaching Writing Skills during the Covid-19 Pandemic. This research highlights the effectiveness of Google Classroom in teaching writing skills, especially during the Covid-19 pandemic. They emphasize the interactive and engaging nature of e-learning through Google Classroom, which facilitates the learning of language writing skills. The implication of this research is that Google Classroom provides an effective alternative to overcome learning challenges during difficult situations such as the pandemic, by providing an interactive learning environment that can be accessed remotely.
- 6) Selvaraj & Aziz (2020) Exploring the Use of Digital Tools including Google Classroom in Teaching Writing Skills. This research explores the use of digital tools such as Google Classroom in teaching writing skills. They found that the integration of tools such as mind maps and Google Classroom can improve students' critical perception and awareness, as well as contribute to improved academic writing skills. The implication of this research is that the integration of digital tools in teaching writing can provide significant benefits in improving the quality of students' academic writing, by encouraging critical and reflective thinking.
- 7) Fonseca & Peralta (2019) Motivational Aspects of Google Classroom and Collaborative Applications in Teaching Writing. This research focuses on students' motivation in using Google Classroom and collaborative applications such as Google Docs in learning to write. They found that the platform increased student motivation and supported more meaningful classroom interactions, as well as encouraging collaborative writing activities. The implication of this research is that the integration of digital tools such as Google Docs in Google Classroom can change the way students learn to write, by strengthening motivation and collaboration in the learning process.

2. Qualitative Analysis

The following is a diagram of the results of qualitative analysis from various studies regarding the use of digital platforms in teaching writing. This diagram shows the main themes identified in each study and how each study contributes to those themes.



In this qualitative analysis, we will highlight the main themes that emerged from the reviewed literature. These themes include the positive influence of digital platforms

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on writing skills, the benefits of digital feedback, and the importance of collaboration in the context of learning to write.

The Positive Influence of Digital Platforms on Writing Skills

Based on the research reviewed, there is a general consensus that the use of digital platforms has a positive impact on students' writing skills. Smith & Johnson (2023) found that digital technology increased writing productivity, enabled faster feedback, and provided better access to writing support resources. This finding is consistent with other research by Lee & Kim (2022) which shows that digital platforms significantly improve students' writing skills. In addition, research by Wahyuni & Arieffiani (2022) shows the effectiveness of Google Classroom during the Covid-19 pandemic, which allows interactive and interesting learning. This shows that even in difficult situations, digital platforms can still have a positive impact on learning writing skills.

Benefits of Digital Feedback

Several studies highlight the importance of digital feedback in improving the quality of writing. Lee & Kim (2022) found that digital feedback and online collaboration can improve the quality of students' writing. Brown & Garcia (2021) also show that online writing tools help students overcome challenges in the writing process and improve the quality of their writing. Research by Shelvam et al. (2021) also supports these findings, showing that the learning tools in Google Classroom are effective in developing students' writing skills.

The Importance of Collaboration

Collaboration also emerged as an important theme in the literature reviewed. Fonseca & Peralta (2019) found that collaborative applications such as Google Docs increased student motivation and supported more meaningful classroom interactions. Research by Selvaraj & Aziz (2020) shows that the integration of digital tools such as Google Classroom and mind maps can improve students' critical perception and awareness, as well as contribute to improving academic writing skills.

3. Quantitative Analysis

Quantitative analysis will measure the extent to which the use of digital platforms affects writing skills based on findings from various studies reviewed. The data presented in this research usually includes effect sizes and comparisons between control and experimental groups.

The Influence of Digital Platforms on Writing Skills

Smith, J., & Johnson, A. (2023) show that increased writing productivity, faster feedback, better access to resources and the implications of integrating digital technology in higher education are important for improving students' writing skills. In addition, Lee, S., & Kim, Y. (2022) Significant improvement in students' writing skills and its implications. Development and implementation of effective digital platforms is needed to maximize students' writing learning potential. Brown, R., & Garcia, M. (2021) Online writing tools help overcome writing challenges and improve the quality of writing, the implication being that integrating online writing tools in the higher education curriculum is important for improving students' writing skills.

Effectiveness of Google Classroom in Teaching Writing Skills

Shelvam et al. (2021) The positive impact of Google Classroom on students' perceptions and experiences in learning writing and the implications of Google Classroom being effective in increasing student interaction and participation in learning writing. Meanwhile, according to Wahyuni & Arieffiani (2022), it shows the effectiveness of Google Classroom during the Covid-19 pandemic and the implication is that Google Classroom provides an effective alternative for overcoming learning challenges during difficult situations.

Motivation and Collaboration in Using Digital Platforms

Selvaraj & Aziz (2020) Integration of digital tools such as Google Classroom improves students' critical perception and awareness, as well as academic writing skills and their implications. Digital tools provide significant benefits in improving the quality of students' academic writing. In addition, Fonseca & Peralta (2019) Increased motivation and class interaction through Google Classroom and Google Docs and their implications as digital tools supporting motivation and collaboration in learning to write.

4. CONCLUSION

Based on qualitative and quantitative analysis from various studies, it can be concluded that the use of digital platforms in teaching writing skills provides many significant benefits. Platforms such as Google Classroom, Moodle, Microsoft Teams, and other collaborative applications have been proven to increase writing productivity, provide rapid feedback, increase motivation and collaboration, and provide better access to writing support resources. Therefore, the integration of digital technology in higher education is very important to improve students' writing skills effectively and efficiently.

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