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## INTEGRATION OF DIGITAL TECHNOLOGY IN INCLUSIVE EDUCATION PROGRAM: CHALLENGES AND SOLUTIONS

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### ABSTRACT

The development of digital technology has opened new opportunities in strengthening the implementation of the Inclusive Education Program (IEP). However, the integration of technology in the IEP is still facing various challenges that can affect the effectiveness of special needs student teaching and learning. This study aims to analyze key challenges in the use of digital technology in IEP as well as identify effective solution strategies based on the latest literature review and global best practices. A qualitative approach through systematic analysis of high-indexed articles is used to obtain findings based on empirical evidence. The results show that the main challenges encountered include infrastructure constraints, teachers' digital literacy levels, the effectiveness of inclusive technology design, and institutional support. To overcome this challenge, solutions such as ongoing training for educators, the development of adaptive technology, and strategic cooperation between stakeholders need to be strengthened. The findings of this study contribute to academic discussions in inclusive education as well as provide guidance to policy makers and educational practitioners in strengthening the use of digital technology in IEP.

**Keywords:** inclusive education, digital technology, challenges, solutions, professional development

### INTRODUCTION

The rapid advancement of digital technology has brought significant transformations across various sectors, including education. In the era of the Fourth Industrial Revolution (IR 4.0), technology is no longer merely a supplementary tool; it has evolved into a central medium in the teaching and learning process. Within the context of the Inclusive Education Programme (IEP), this transformation offers broader opportunities to create responsive and flexible learning environments that cater to the diverse needs of all learners. Digital tools enable teachers to design more inclusive and effective instructional strategies while minimizing physical and social barriers that often hinder active participation by students with special educational needs (SEN).

The core objective of inclusive education is to ensure that every student—regardless of physical, cognitive, or socio-emotional differences—has equitable access to quality education. To achieve this aim, digital technology plays a vital role. Assistive technologies such as screen readers, Augmentative and Alternative Communication (AAC) tools, and specialized mobile devices have been shown to significantly enhance learning autonomy among students with disabilities (Dell, Newton, & Petroff, 2017). These tools support individualized learning pathways and facilitate student engagement.

In addition, the use of technology within IEPs has been explored in past research, revealing both benefits and challenges. According to Alquraini and Gut (2012), while technology promotes inclusion by enabling differentiated instruction, many teachers face difficulties in aligning technological tools with specific IEP goals due to a lack of professional development and insufficient infrastructure. Similarly, research by Al-Azawei, Serenelli, and Lundqvist (2016) emphasizes that effective integration of digital tools requires ongoing teacher training and administrative support to prevent the misuse or underutilization of technology in classrooms.

Adaptive learning platforms and artificial intelligence (AI)-based applications have further empowered the inclusive education system by offering personalized content and real-time data analysis. These innovations allow students to learn at their own pace and in line with their preferred styles, thus fostering motivation and sustained engagement in the learning process. However, Florian and Black-Hawkins (2011) argue that without adequate planning, such technology may inadvertently reinforce exclusion, particularly when students are segregated by ability within digital environments.

Therefore, while the integration of digital technology into inclusive education holds great potential to enhance accessibility and learning outcomes, it also presents pedagogical and systemic challenges that must be addressed. A holistic approach that includes teacher training, resource allocation, and pedagogical adaptation is essential to ensure that technology truly empowers all learners and supports the goals of inclusive education.

## LITERATURE REVIEW

The integration of digital technology in inclusive education programs has become a pivotal component in enhancing learning accessibility and equity for students with diverse needs. According to Florian and Spratt (2013), inclusive pedagogy requires that learning environments be designed to accommodate all learners, and digital technologies serve as essential tools in actualizing this vision. Inclusive education seeks to provide equitable learning opportunities by integrating students with disabilities, special educational needs, and diverse socio-economic backgrounds into mainstream classrooms (Ainscow, 2020). Digital tools—ranging from assistive technologies and AI-powered learning platforms to adaptive software—have proven effective in supporting individualized learning pathways, as shown in Edyburn's (2021) meta-analysis of technology-based interventions for students with disabilities.

Despite its transformative potential, the implementation of digital technologies in inclusive settings is hindered by several persistent challenges. Schuck et al. (2017) emphasize that infrastructural limitations, including poor internet access and lack of devices, especially in rural or underfunded schools, continue to widen the digital divide. Selwyn (2016) also highlights the socio-digital gap, wherein students from lower-income families are disproportionately excluded from tech-enabled learning environments, reinforcing pre-existing educational inequalities. This is supported by Livingstone and Helsper (2020), who found that children with limited access to digital devices tend to fall behind academically, particularly when learning requires independent engagement with digital content.

A key finding in the literature concerns the role of teachers in enabling or obstructing digital inclusion. Koehler and Mishra's (2009) Technological Pedagogical Content Knowledge (TPACK) framework identifies teacher readiness and digital literacy as critical enablers for effective technology integration. Papanastasiou et al. (2019) further assert that without structured professional development, teachers often feel ill-equipped to personalize instruction or implement assistive technologies in alignment with individualized education plans (IEPs).

Moreover, policy-level constraints also emerge as a recurring issue in the literature. Bozkurt (2021) and UNESCO (2019) both argue that insufficient funding, vague policy guidelines, and lack of long-term strategic planning impede the scalability of inclusive digital education. For example, while many schools are encouraged to adopt ICT in classrooms, few receive guidance on integrating such tools for SEN learners or monitoring the effectiveness of these implementations.

These findings are directly relevant to the present study, which investigates the effectiveness and limitations of digital technology integration in inclusive education settings—specifically in the context of secondary schools implementing the Inclusive Education Programme (IEP). By synthesizing empirical findings, the study aims to contribute to the growing discourse on inclusive pedagogy and digital equity. It bridges the gap between theoretical models and practical classroom implementation by highlighting contextual barriers and proposing actionable frameworks.

The contribution of this study lies in its potential to inform stakeholders—especially policymakers, teacher educators, and technology developers—on evidence-based strategies to enhance inclusive education. It underscores the need for localized training models, investment in affordable assistive technologies, and cross-sectoral collaboration to ensure sustainability. As emphasized by Anderson et al. (2022), meaningful partnerships between government bodies, educational institutions, and tech companies are essential for creating adaptive, inclusive digital ecosystems. Likewise, Hwang and Fu (2019) show that well-coordinated digital inclusion strategies can significantly enhance student engagement and academic achievement, especially for marginalized learners.

By situating itself within these scholarly discussions, the study not only reinforces existing arguments about the value of digital technology in inclusive education but also offers a context-sensitive examination that adds depth to global conversations on educational equity and innovation.

## **METHODOLOGY**

This study employs a qualitative research design through a Systematic Literature Review (SLR) to explore the challenges and solution strategies in integrating digital technology into Inclusive Education Programmes (IEP). The SLR approach was chosen due to its capacity to critically synthesize findings from existing empirical studies and to identify patterns, gaps, and evidence-based practices. To ensure transparency, reproducibility, and methodological rigour, the review adheres to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines.

The review specifically targets high-quality, peer-reviewed journal articles indexed in Web of Science (WoS), Scopus, and ERIC. A comprehensive search strategy was implemented using combinations of keywords such as “inclusive education,” “digital technology,” “assistive technology,” “IEP,” “integration,” “barriers,” “solutions,” and “special educational needs.” Boolean operators (AND, OR) and truncations (e.g., educat for “education” or “educational”) were applied to refine and broaden the search results. The initial search retrieved a total of 347 articles. To ensure the relevance and quality of selected studies, specific inclusion criteria were applied: articles published between 2008 and 2023, based on empirical research using qualitative, quantitative, or mixed-methods designs, that addressed digital technology use in inclusive education, and provided explicit findings on the associated challenges or solutions. Exclusion criteria included opinion-based articles, theoretical papers, conference abstracts, studies not focused on school-based inclusive education (such as tertiary or adult learning contexts), and articles not published in English. After applying these criteria and removing duplicates using the Mendeley reference manager, a total of 42 articles were selected for final review. The overall selection process was documented using a PRISMA flow diagram.

To systematically extract relevant data, a standardized data extraction matrix was developed in Microsoft Excel. This matrix captured key information including article metadata (authors, year, journal), research design (e.g., case study, experiment, longitudinal study), participant context (teachers, students, schools), country or region of the study, key findings on barriers and facilitators, and any reported

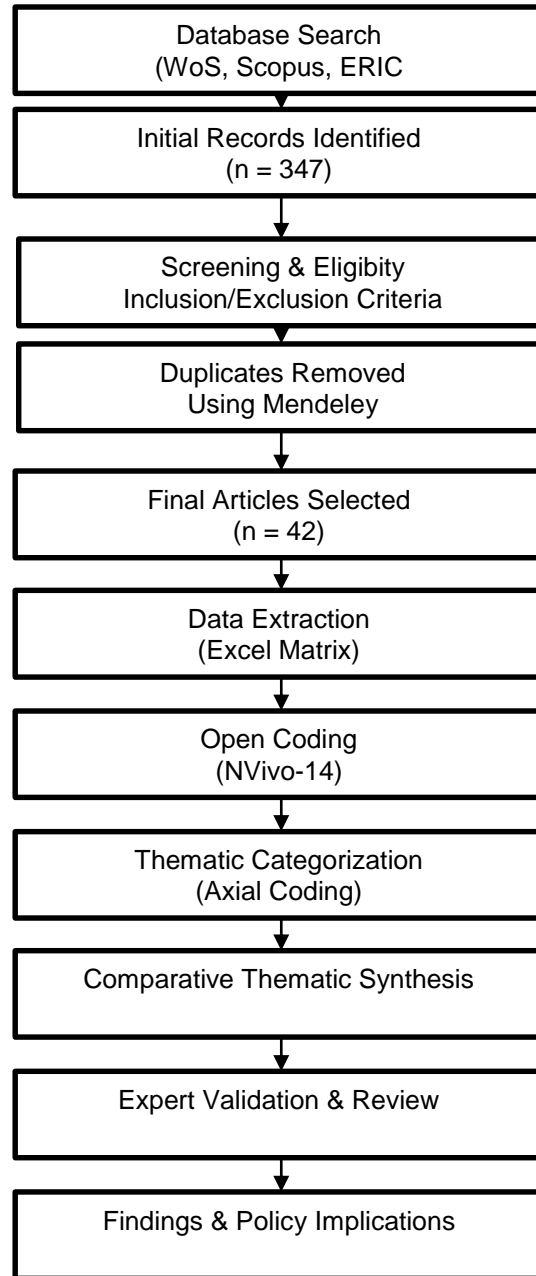
interventions or recommendations. Each article was reviewed in detail and manually coded for relevant data by two independent reviewers to enhance consistency and objectivity.

Data coding was conducted using an open coding approach. Researchers highlighted recurring terms and concepts related to barriers—such as “lack of training” and “infrastructure issues”—and solution strategies like “teacher professional development” and “policy support.” NVivo 14 software was employed to manage and organize the qualitative data. To ensure coding reliability, an inter-coder agreement process was applied, where two coders independently reviewed and refined the codes. Any discrepancies were resolved through discussion and consensus. Inter-coder reliability was assessed using Cohen’s Kappa coefficient, which yielded a value of 0.82, indicating strong agreement between coders.

Following coding, thematic categorization was performed through axial coding, where related codes were grouped into broader thematic clusters. These included key barrier themes such as digital divide, teacher digital literacy, funding constraints, and lack of assistive tools, as well as facilitators like capacity-building, inclusive pedagogy, inter-agency collaboration, and the use of AI-based educational platforms. Thematic development was iterative, with regular discussions among the research team to ensure conceptual clarity and representativeness of the categories.

The synthesis of findings was conducted using a comparative thematic synthesis approach. This involved analyzing and comparing themes across different studies based on geographical regions, education levels, and contextual variations. Patterns, contradictions, and emerging trends were identified to provide a holistic understanding of digital technology integration in inclusive education contexts globally. To enhance the credibility of the analysis, expert validation was undertaken. Two specialists in inclusive education were invited to review the thematic interpretations and provide feedback, which was subsequently incorporated into the synthesis.

This study upholds strict research ethics and validity standards. All data sources are properly cited following APA 7th edition formatting guidelines. Multiple validation techniques were employed, including source triangulation through the use of several academic databases, inter-coder validation for coding consistency, and expert review for thematic accuracy. The selection process was conducted objectively using clearly defined inclusion and exclusion criteria, reducing the potential for bias. Collectively, these methodological strategies ensure that the study offers a robust and credible contribution to the academic discourse on inclusive education and digital technology integration, with practical implications for policy development and classroom implementation.



**Diagrams 1** Methodological Flow

## RESULTS AND FINDING

The integration of digital technology in the Inclusive Education Program (IEP) has shown significant potential in enhancing accessibility, engagement, and learning outcomes for students with special needs. However, findings from a systematic literature review reveal that despite advancements in assistive technology, adaptive learning systems, and digital inclusion policies, several critical challenges persist. These challenges primarily revolve around infrastructural limitations, teacher digital competency, effectiveness of inclusive technology design, and institutional support mechanisms (Edyburn, 2021; Hwang & Fu, 2019). This section presents a detailed analysis of these key findings, along with evidence-based solutions derived from global best practices.

### Infrastructure Constraints and the Digital Divide

One of the primary barriers to integrating digital technology into inclusive education is the unequal distribution of digital resources, often referred to as the digital divide. Studies indicate that students in rural and underprivileged areas lack access to high-speed internet, digital devices, and assistive learning tools, limiting their participation in technology-enhanced learning environments (Livingstone & Helsper, 2020; Selwyn, 2016). Furthermore, disparities in technological infrastructure among schools create inconsistent learning experiences, where students with disabilities in well-funded institutions benefit from state-of-the-art assistive technology, while those in low-income settings face limited digital inclusion (Bozkurt, 2021). Addressing this challenge requires government intervention, public-private partnerships, and digital equity policies to ensure universal access to digital education resources (Anderson et al., 2022).

### Teacher Digital Competency and Pedagogical Adaptation

Effective integration of digital technology in IEP depends largely on teachers' digital literacy and pedagogical adaptability. Studies highlight that many educators lack adequate training in digital pedagogy and assistive technologies, limiting their ability to create inclusive and technology-driven learning environments (Papanastasiou et al., 2019; Koehler & Mishra, 2009). Moreover, traditional teacher training programs do not sufficiently cover the use of adaptive learning systems, AI-based educational tools, and universal design for learning (UDL) strategies, making it difficult for educators to cater to the diverse needs of students with disabilities (Schuck, Kearney, & Burden, 2018). Professional development programs, digital upskilling initiatives, and ongoing capacity-building workshops are necessary to enhance teacher preparedness and ensure effective integration of digital tools in inclusive classrooms (Florian & Spratt, 2013).

### Effectiveness of Inclusive Technology Design

While digital and assistive technologies are designed to support students with disabilities, many existing tools lack customization, adaptability, and user-friendly interfaces that align with students' specific needs (Edyburn, 2021). For instance, research suggests that speech-to-text software, adaptive learning platforms, and augmented reality (AR) applications often fail to accommodate individual learning preferences and cognitive abilities, leading to suboptimal learning experiences (Hwang & Fu, 2019). The absence of universal design principles in digital educational tools further exacerbates this issue, as many applications do not support multi-modal learning approaches that are essential for diverse learners (UNESCO, 2019). To enhance the effectiveness of digital technologies in inclusive education, collaborations between software developers, educators, and accessibility experts are crucial in developing user-centric, adaptive, and universally designed learning solutions (Bozkurt, 2021).

### Institutional Support and Policy Frameworks

The successful implementation of digital technology in IEP requires strong institutional support, well-defined policy frameworks, and sustainable funding mechanisms. Many schools struggle with budget constraints, limiting their ability to invest in digital infrastructure, procure assistive technologies, and train educators (Papanastasiou et al., 2019). Additionally, the lack of standardized policies on inclusive digital

education results in inconsistent implementation strategies across different regions and educational institutions (UNESCO, 2019). To address these challenges, governments and policymakers must establish clear regulatory guidelines, allocate sufficient funding, and promote multi-sector collaboration to ensure the scalability and sustainability of digital inclusion efforts in education (Anderson et al., 2022).

### **Proposed Solutions for Effective Digital Integration**

To overcome these challenges, several strategies have been suggested to facilitate the seamless integration of digital technology in inclusive education. One key solution is bridging the digital divide. Governments and stakeholders should invest in expanding digital infrastructure, particularly in underserved communities, to ensure equitable access to technology (Anderson et al., 2022). Initiatives such as subsidized internet access, provision of digital devices, and community technology hubs can help bridge the gap (Hwang & Fu, 2019). By ensuring equal access to digital resources, students from diverse backgrounds can fully engage in the learning process and benefit from inclusive education programs.

Another important strategy is enhancing teacher training and digital competency. Implementing targeted professional development programs can equip teachers with the skills needed to integrate digital technology effectively in inclusive classrooms (Koehler & Mishra, 2009). Training should focus on digital pedagogy, assistive technologies, and strategies for differentiated instruction (Papanastasiou et al., 2019). Equipping educators with the necessary skills will enable them to create inclusive learning environments that cater to the needs of all students.

Furthermore, developing inclusive digital policies is crucial for the sustainable implementation of technology in inclusive education. Policymakers should establish clear guidelines and funding mechanisms to support the integration of digital technology in inclusive education (UNESCO, 2019). Collaborations between governments, educational institutions, and technology developers can ensure sustainable and inclusive digital learning environments (Bozkurt, 2021). A well-defined policy framework will provide the necessary support and resources for schools to effectively implement digital technology in inclusive classrooms.

## **DISCUSSIONS, RECOMMENDATIONS AND CONCLUSIONS**

The discussion of this study underscores the critical role of digital technology in enhancing inclusive education while identifying key barriers that must be addressed to ensure its effective implementation. The findings reveal that although digital tools can significantly improve accessibility, engagement, and learning outcomes for students with disabilities, persistent challenges such as the digital divide, insufficient teacher training, limitations in inclusive technology design, and inadequate institutional support hinder their full-scale adoption. A multi-stakeholder approach involving policymakers, educators, researchers, and technology developers is essential to optimize digital inclusion in the Inclusive Education Program (IEP).

One of the most pressing concerns in the integration of digital technology in IEPs is the digital divide, particularly in underprivileged and rural communities (Livingstone & Helsper, 2020). Socioeconomic disparities significantly affect students' ability to access digital learning tools, which aligns with prior research emphasizing income-based inequalities in digital education (Selwyn, 2016). In response, global best practices advocate for a collaborative effort among government agencies, private sector organizations, and non-profits to bridge this gap (Anderson et al., 2022). For instance, Finland and South Korea have successfully implemented state-subsidized programs that ensure equitable digital access (UNESCO, 2019). The adoption of similar policies in other nations could enhance digital inclusivity in IEPs, ensuring that technology serves as a tool for educational equity rather than exacerbating existing disparities.

Another significant challenge identified in this study is the lack of teacher readiness and digital pedagogical competence. Many educators lack adequate training in integrating assistive technologies, adaptive learning platforms, and inclusive digital teaching methods (Papanastasiou et al., 2019). Traditional teacher training programs often fail to incorporate universal design for learning (UDL) principles, which

further limits educators' ability to create adaptive learning experiences for students with disabilities (Florian & Spratt, 2013). Research suggests that targeted professional development programs focusing on digital pedagogy can substantially improve teacher competency (Koehler & Mishra, 2009). The Technological Pedagogical Content Knowledge (TPACK) framework, which integrates technological, pedagogical, and content knowledge, has been successfully adopted in countries like Singapore and Australia, where digital literacy training is embedded in teacher certification programs (Hwang & Fu, 2019). By implementing similar initiatives, educational institutions can enhance digital competency among educators and ensure a more effective application of digital tools in inclusive learning environments.

The effectiveness of inclusive technology design remains another significant challenge in digital integration. Many existing assistive technologies, such as speech-to-text software and augmented reality (AR) applications, fail to meet the diverse learning needs of students with disabilities due to insufficient customization and poor user interface design (Edyburn, 2021). Prior research highlights the importance of designing inclusive technology based on universal design principles, ensuring accessibility for all learners (Bozkurt, 2021). Successful models, such as Google's AI-powered accessibility tools and Microsoft's immersive reader, demonstrate the effectiveness of multi-sensory learning approaches in addressing diverse learning needs (UNESCO, 2019). Therefore, collaboration among technology developers, accessibility experts, and special education practitioners is critical to ensuring the development of user-centered, adaptable, and effective assistive learning tools.

Institutional and policy support is another fundamental factor influencing the success of digital technology integration in inclusive education. Many educational institutions struggle with financial limitations, inconsistent implementation strategies, and the absence of standardized guidelines for digital inclusion in IEPs (Papanastasiou et al., 2019). UNESCO (2019) emphasizes the need for clear regulatory frameworks to mandate the integration of digital technology into inclusive education policies. Countries like Norway and Canada have successfully implemented national strategies that allocate government funding for assistive learning tools and require educators to undergo mandatory digital training (Hwang & Fu, 2019). Such evidence-based policy interventions can ensure the sustainability and scalability of digital inclusion efforts, allowing more institutions to effectively integrate technology into inclusive education programs.

From a theoretical perspective, this study contributes to the discourse on digital transformation in inclusive education by reinforcing the relevance of the Universal Design for Learning (UDL) framework (Meyer, Rose, & Gordon, 2014). The UDL framework emphasizes the importance of multiple means of engagement, representation, and expression, which aligns with the study's findings on the need for inclusive technology design and teacher training. Additionally, this study supports Vygotsky's Sociocultural Theory (1978), which highlights the role of social interaction and technological mediation in learning. The findings suggest that when digital technology is effectively implemented, it can serve as a cognitive tool that facilitates collaborative, adaptive, and inclusive learning experiences (Schuck, Kearney, & Burden, 2018).

In conclusion, this study reaffirms that digital technology has the potential to transform inclusive education by enhancing accessibility and learning outcomes for students with disabilities. However, several systemic barriers, including the digital divide, teacher digital competency gaps, ineffective inclusive technology design, and policy limitations, must be addressed to ensure its successful integration. To overcome these challenges, future initiatives should focus on investment in digital infrastructure, teacher training programs, the development of adaptive learning technologies, and the establishment of clear policy frameworks. Future research should also explore longitudinal studies on the long-term impact of digital technology in IEPs, comparative cross-national analyses of digital inclusion policies, and experimental research on the usability of assistive learning tools for diverse learners. Through multi-sector collaboration and evidence-based solutions, digital technology can be leveraged to create a more inclusive, equitable, and accessible education system.



## CONCLUSIONS

The findings of this study reaffirm that the integration of digital technology in Inclusive Education Programs (IEPs) holds immense potential to enhance accessibility, engagement, and learning outcomes for students with disabilities. However, several persistent challenges, including the digital divide, inadequate teacher digital literacy, limitations in inclusive technology design, and weak institutional support, continue to hinder its full-scale implementation. Addressing these challenges requires a multi-stakeholder approach that involves policymakers, educators, technology developers, and researchers working collaboratively to create sustainable and inclusive digital learning environments.

To bridge the digital divide, initiatives such as government-subsidized digital infrastructure, affordable internet access, and the provision of digital devices for marginalized students must be prioritized. Additionally, the development of comprehensive teacher training programs focusing on digital pedagogy and assistive technology is crucial to ensuring that educators are equipped with the necessary competencies to integrate technology effectively into inclusive classrooms. Furthermore, the design of inclusive learning technologies should be guided by universal design principles to accommodate the diverse needs of students with disabilities.

From a policy perspective, governments and educational institutions must establish clear regulatory frameworks and allocate adequate funding to support digital inclusion in education. Case studies from countries such as Finland, South Korea, and Canada have demonstrated that well-structured policies and investments in assistive learning technologies can significantly improve digital inclusivity in IEPs. The study also contributes to the theoretical discourse on inclusive education by reinforcing the importance of the Universal Design for Learning (UDL) framework and Vygotsky's Sociocultural Theory in shaping digital learning strategies.

## RECOMMENDATIONS

Future research should explore the long-term impact of digital technology on inclusive education, comparative analyses of digital inclusion policies across different educational contexts, and empirical studies on the effectiveness of assistive learning tools for diverse learners. By fostering collaborative efforts and evidence-based strategies, digital technology can serve as a powerful enabler of educational equity, ensuring that all students, regardless of their abilities, have equal opportunities to learn, grow, and succeed in an increasingly digital world.

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