Digital Inclusive Education in the Educational System

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Abstract: This paper addresses the topic of inclusive digital education in today's education system which is in continuous transformation. This inclusive education is an ongoing process that involves preparing children with special educational needs, adapting schools to their requirements and engaging them in both formal and informal educational activities that ensure their learning and development. Digital inclusion facilitates the teaching, learning, and evaluation processes, providing a playful and dynamic space for students, bringing significant benefits to the education system. Digital inclusion in education is crucial because, beyond approaching interaction means of knowledge, it also motivates the learning process, which requires inventive means and knowledge exchange, ensuring active student participation in school activities. This involves identifying and eliminating barriers that can relate to the way schools are organized, teaching methods, and evaluating student progress. Inclusive education and digital technology are interconnected. Change inclusive educational plans must consider successful digital change. Although inclusive and digital education system have developed separately, their various advances have also developed they supported each other. They should be seen as such, and the connection between them should be further promoted so that all children have an equal chance of achieving their potential within the framework the educational system.

Keywords: inclusive education; digital inclusion; technology; educational system

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1. Introduction

Inclusive education is an evolving field, with its trends and perspectives changing and developing based on advancements in research, technology, and educational policies. The goal of inclusive education is based on creating a learning climate that is available and conducive for students, regardless of abilities, requirements or cultural context. An important trend is adopting individualized learning methods that consider each student's different needs and paces. Digital technologies play a significant role in this trend, allowing for the personalization of content and teaching methodologies.

2. Requirements for Achieving Inclusive Education

- Stopping discrimination;

- Ending the exclusion of students with disabilities;

- Entry into primary and secondary education - with a sufficiently convenient value and inclusive schools, including for students with disabilities caught in attacks and unpleasant poses;

- Practical help or modifications for students to make it easier for them to learn - that's what it's called "reasonable accommodation";

- Individual education programs for children with disabilities that outline what accommodations and supports they need;

- Activities for those with disabilities, such as braille or sign language, in the classroom restructuring and accessible learning objectives;

- Teachers adequately trained to function in inclusive schools.

Today's students live in a world of constant change and development. Computing brings not only new skills and abilities to enjoy, but also a whole new scope to their daily life in a transparent society that we discover as "being online".

Using technology to support inclusive education can have many benefits on offer customized options tailored to meet the individual needs of students with diverse abilities and skills. Here are some ways technology can be used for this:

- **Educational software and applications:** A variety of educational software and applications are available that can be tailored to meet the individual needs of students with different skills. For example, game-based learning applications can support

interactive and engaging learning, and speech-to-text software can help students with writing disabilities express their ideas effectively;

- **Online learning platforms:** Online learning platforms provide opportunities to access educational resources and collaboration for students with different needs and abilities. These can offer tailored learning materials, personalized activities, and social interactions that encourage participation and engagement;

- **Assistive technology devices:** These devices, such as touch-screen tablets, speech-reading systems, and computers with specialized drivers, can provide additional support and accessibility for students with visual, hearing, or motor impairments;

- **Online communication and collaboration:** Online information and cooperation: The IT system can contribute to a close collaboration between students, teachers and parents in the context of inclusive education. Using messaging platforms, online forums, and video conferencing applications can improve access to information and support and promote social interaction and collaboration;

- **Adapting materials and assessments:** IT equipment can be used to tailor education depending on the individual needs of the students. For example digital information can be adapted to provide additional learning support and online assessment tools can be customized to assess progress based on student abilities and needs;

- **Data analysis and progress monitoring:** Technology can facilitate the collection, analysis, and interpretation of data related to student progress in the context of inclusive education. Learning management systems can provide useful information about student performance and help teachers identify appropriate interventions to support student progress.

These are just a few examples of how technology can be applied to facilitate inclusion education. Using technology can create learning and development opportunities for all students, regardless of their individual abilities, and can contribute to promoting equitable and inclusive education for all.

UNESCO (2021b) emphasizes that there are high expectations for technology to enable the achievement of Sustainable Development Goal (SDG) 4 to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

The Digital Education Action Plan (2021–2027) highlights the need to advance digital technology as a recognized given while acknowledging the role of different stakeholders in successfully achieving digital transformation in education.

3. Topics to Consider Include

• Transmission of investigations, case studies or scientific research on the attributions of education technology during crisis situations, especially to what extent it contributes to the remediation or deterioration of the resilience of the education system;

• Using systemic treatment that aligns digital and educational change actions at individual, organizational and policy levels to move towards effective inclusive digital education (European Agency 2022e);

• Employing innovative approaches to account for the very different generations of technology in students' lives, particularly in education and leisure;

• Utilizing assessment methodologies that evaluate the impact and outcomes of using technology in education in terms of participation, inclusion, and achievement at individual, organizational, and educational system levels;

• Investigating options to build and fructify bridges/interfaces between increased use of technologies in formal/non-formal education and the use of the same technologies in informal education lifelong learning.

This inclusive education is perceived as a high quality school education that values the rights, equality, access and participation of all students.

Public educational institutions with an inclusive direction are the best methods of eliminating discriminatory attitudes, establishing welcoming collectives, building an inclusive environment society and the development of education for all; moreover, it provides a useful education for most students and improve the efficiency and ultimately the benefit of the entire educational program.

Education goes beyond the theoretical transmission of curriculum knowledge; it plays a significant role in contributing to students' education and promoting social transformation. Thus, the use of digital tools, which are already a reality for students, helps organize and construct systematic and scientific knowledge.

To encourage educational inclusion in the future and to ensure that all children have access to a quality education, several aspects must be considered. Here are some recommendations in this regard:

- **Equitable and inclusive educational policies:** Governments and educational authorities should develop policies that promote equal access to education for all students regardless of abilities, needs, or socio-economic background. These policies should aim to remove barriers that may hinder participation and success in education;

- **Investment in infrastructure and resources:** Adequate resources should be allocated to ensure access to suitable educational facilities and provide the necessary support for students with special needs. This may include adapting school buildings, providing assistive equipment and technologies, and hiring specialized staff;

- **Professional training for teachers:** Teachers should benefit from continuous training programs that give them the skills and principles to work in an inclusive way environment. This could include learning about teaching methods adapted to different students' needs and using assistive technologies;

- **Partnerships between schools and the community:** Collaboration between schools, parents, non-governmental organizations, and other community stakeholders can contribute to promoting educational inclusion. These partnerships can offer additional support for students and help identify and address specific community issues;

- **Promoting a culture of respect and acceptance:** It is important to promote a culture of mutual respect and acceptance of diversity among students, teachers, and the community as a whole. This can be achieved through educational programs and activities that encourage open dialogue, understanding, and empathy towards others;

- **Monitoring and evaluating progress:** Effective systems for monitoring and evaluating progress in promoting educational inclusion are essential to identify challenges and adapt strategies accordingly. These data can guide policy decisions and allocate resources efficiently.

By implementing these recommendations and maintaining an ongoing commitment to creating an inclusive education system, it is necessary to ensure that all students have equal opportunities to achieve their potential within the educational system.

References

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