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TEMA:

Teachers' perspectives & experience: innovating educational practices through a digital environment

Autoras:

Elaine Julissa Guaranda Suárez Fátima Inés Gómez Freire Johanna Stephania Freire Acosta

Tutor:

Msc. Gabriela Villavicencio

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RESUMEN

El entorno digital ha cambiado las perspectivas y experiencias de los docentes. Es fundamental admitir que la tecnología permite la innovación para realizar prácticas educativas en las aulas online actuales. El propósito de este artículo es generar un cambio transformador, ofreciendo oportunidades y desafíos tanto a profesores como a estudiantes. Por lo tanto, el inicio de un nuevo sistema educativo para enseñar a los estudiantes comienza con la enseñanza en un entorno digital, el desarrollo de contenidos educativos digitales para enseñar las cuatro habilidades como escuchar, leer, hablar, escribir y evaluar a través de la tecnología. Para alcanzar este objetivo, hemos implementado una encuesta para un análisis cuantitativo, proporcionando una percepción de los profesores de diferentes escuelas secundarias sobre la importancia de introducir el aprendizaje digital en la enseñanza del inglés como segunda lengua. Como resultado, esta evolución en la educación es esencial para preparar a los estudiantes para prosperar en una era digital, dotándolos de habilidades preparadas para el futuro y mejorando el compromiso a través de enfoques de aprendizaje innovadores. En el futuro, la integración efectiva de estrategias de enseñanza asincrónicas y sincrónicas ofrece un marco dinámico para experiencias de aprendizaje personalizadas y colaborativas.

PALABRAS CLAVES

Aprendizaje digital, educación innovadora a través de la tecnología, estrategias de enseñanza y aprendizaje.

ABSTRACT

The digital environment has changed teachers' perspectives & experiences. It is essential to admit that technology allows innovation to perform educational practices in the current online classrooms. The purpose of this article is to bring forth a transformative shift, offering opportunities and challenges to teachers and students alike. Therefore, the beginning of a new educational system to teach students starts with teaching in a digital environment, the development of digital educational content to teach the four skills such as listening, reading, speaking, writing, and assessment through technology. To reach this goal, we have implemented a survey for a quantitative analysis, providing a perception of teachers from different high schools on the importance of introducing digital learning to teach English as a second language. As a result, this evolution in education is essential for preparing students to thrive in a digital age, equipping them with future-ready skills and enhancing engagement through innovative learning approaches. Moving forward, the effective integration of asynchronous and synchronous teaching strategies offers a dynamic framework for personalized and collaborative learning experiences.

KEYWORDS

Digital learning, innovating education through technology, teaching and learning strategies



1. INTRODUCCIÓN (OBJETIVO DEL ARTÍCULO)

Over the past century, the transformation of the educational system due to emerging technologies and digital learning environment have been everywhere and has become an integral part of our daily lives. Today, individuals who are learning foreign languages have a wide range of tools and resources at their disposal on the internet, thanks to digital technology such as computer-assisted language learning (CALL). Modern devices and apps make it much easier to teach and learn languages for different purposes like finding information, communicating, and checking spelling. In education, digitalization makes it easier to access materials and resources. However, teachers now have to deal with new challenges. They need to find digital resources that fit their teaching style and develop activities that work well with modern language classrooms. Both teachers and students need to get used to using new technology (Ostanina, 2018). Nowadays, it is essential to implement technology in an educational context. There are too many digital platforms that support English teachers in creating material to change the focus of the classes and positively improve the learning environment. Technology allows learners to acquire English as a Second Language as well. At this point, creating digital content to teach them the four skills is too influential (Vonog et al., 2021).

Educational platforms have a great importance and benefits in digital learning. Using these resources to develop digital content is paramount to accomplish the teaching-learning process. Technology helps students learn better through virtual classrooms. This means people can learn in ways that work best for them. (Ketabi, 2017). With technology, students learn skills they will need for jobs in the future, like using computers and working with others. We can also track progress and give personalized feedback. As Joshi (2023) points out, by using technology, we can adapt to how students learn and come up with new ideas, making learning fun and helping students do well in their learning journey. Also found enhanced accessibility and inclusivity, development of future-ready skills, enhanced engagement and motivation, data-driven education, streamlined administrative processes are important in the digital learning stage.

In Ecuador since Covid-19, digital learning has taken a significant place in the educational environment. Each educator has had to embrace technology to carry out their duties. We, as teachers, found ourselves in this transition to a virtual format and introduced innovative teaching approaches to facilitate effective online lessons (Ahern, 2021). This was presented to us with a significant challenge. A considerable number of educators had to navigate teaching without the necessary training and technology. Since then, technology has transformed into an essential component of daily life for all of humans (Benalcázar et al., 2021). In the Ecuadorian educational system, most teachers did not get the proper training due to their disruption. Most of the senior teachers have taken digital learning negatively, they see technology as a risk. On the other hand, some teachers manage technology but do not like to use educational platforms. They are just concerned about fulfilling the courses that they are asked to teach. There is a low percentage of English Teachers in Public institutions who are committed to implementing digital learning in their teaching methodologies (Castañeda & Jaime, 2021). At the same time, it is fundamental to mention the economic issues that learners dealt with during their virtual modality. To carry out the virtual classes you need to get some technological resources such as the Internet and electronic devices. And not all Ecuadorian families have this kind of benefit at home. Sometimes, there is only a digital device such as a tablet or cellphone being used by three students in the house. In addition, mental health in humans is the most important thing to live healthily. If we are not fine, we cannot develop our jobs and studies correctly. Most of the humans during the virtual classes used to stress caused by the number of activities. We were obligated to evidence our work and assignments daily (Carpio & Suing, 2022).

In Ecuador since 2016, the McCapacito virtual Moodle Platform has been used to train teachers in Ecuador. This platform aims to improve access to training programs through online tools and other resources, reaching a large number of teachers. They only need to register, because these courses have no paying. McCapacito has expanded teacher training and has reached thousands of



teachers in Ecuador's public education system. Over one and a half million teachers have participated in training programs across different subjects (*Plataforma Mecapacito – Ministerio de Educación*, 2022). However, if teachers do not take advantage of the resources and the benefits given by the Ecuadorian government through Ministry of Education, we will not see improvement in the Education System due to lack of compromise, responsibility, dedication to our teaching practice (Tondeur et al., 2017).

The first step to solve the challenges and limitations that digital learning requires is notice that teachers play a key role in using technology to enhance learning. That is why teachers must develop digital skills to teach effectively in today's digital age (Bond et al., 2018). It is essential to develop the teaching online EFL lessons to carry out digital learning adequately. For this, it is too helpful follow a type of timetable and teaching plan to achieve the learning goals. The most important aspects of online teaching are: select your platform and teaching tools, technological needs, online privacy and safety, training, space, and resources. learning objectives, establish a routine, provide instructions, classroom management, student participation, in-class group work, grading, and progress testing. (Cambridge, 2020). The purpose of this research is to evaluate the online learning elements that guarantee the effectiveness and quality of virtual education. By employing a combination of assessment methods, from online testing to engagement analysis and personalized feedback, educators can monitor student progress, identify areas of difficulty, and provide the support needed to promote meaningful, lasting learning. Furthermore, effective assessment and monitoring of online learning allows educators to can modify their teaching techniques to fit the specific requirements of pupils, therefore creating an inclusive and engaging learning environment in today's digital context. Ultimately, by prioritizing the assessment and monitoring of online learning, educational institutions can maximize the potential of digital education and prepare students to succeed in an increasingly digitized and globalized world (Alrefaie & Hassanien, 2020).

2. MARCO TEÓRICO

Digital Learning

Digital Learning is all types of technology learning practice. Digital Learning has replaced traditional curriculum such as textbooks and traditional classroom setups. Nowadays, we use e-books and online resources. It allows students to have no stress and time limitations of being in a classroom and having to follow any schedule or classroom rules. In addition, commuting and reducing transportation costs are a big part of the benefits of digital learning. Kim et al., (2022) affirms that "Digital learning in scientific education offers various advantages, including increased engagement and motivation, enhanced accessibility, personalized learning, collaborative learning, and gamification". The difference between online learning and digital learning is that online learning can be created by teachers for students to accomplish assignments through their investigation and receive feedback from their teachers within a time established or due date. On the other hand, digital learning allows you to do assignments also, use apps, platforms, and gaming to accomplish a project or other task.

Teaching in a Digital Environment

In short, digital learning uses technology to enhance the learning experience by offering great instruction and engaging content. It lets teachers give feedback, allows learning anytime, anywhere, and tailors teaching to each student's needs. The key benefit is the variety of ways teachers can present content, giving students lots of options for how they learn (Fauzi, 2023).

Integrating digital learning in the classroom is because this generation is technology experts and was born to embrace a new way of learning. It is the best way to motivate our students. To be active, participants in our virtual classroom. They can always feel free to suggest new ideas or resources that are out there in numerous apps or platforms (Unesco, 2024).



Development of digital educational content to teach the four skills

Language instructors have long employed the notion of four fundamental language skills: listening, speaking, reading, and writing. These four linguistic skills are also referred to as "macroskills". This contrasts with "micro-skills" like as grammar, vocabulary, pronunciation, and spelling (Aydoğan & Akbarov, 2014).

Language educators must implement in the teaching process the use educational platforms to develop the four English skills. Such as listening, reading, speaking, and writing. Technology allows educators create material to develop their classes using these educational tools. Also, these platforms are helpful to English Language Learners, they can practice and learn in an interactive way. For that, we want to provide some essential information about educational platforms that are helpful in the learning and teaching process developing listening and reading (Receptive Skills). For example: Listening: BBC Learning English, Voice of America, British Council - Learn English, YouTube; Reading: ReadWorks, Newsela, CommonLit, Khan Academy, Quizlet.

Now, it is important to highlight the platforms that we can use to teach speaking and writing (productive skills). For example: Speaking: Google Meet, Zoom, Flipgrid, SpeakPipe, Tandem Language Exchange; Writing: Grammarly, Hemingway Editor, Writing Prompts Websites, Write & Improve, PeerGrade.

Asynchronous and synchronous teaching and learning strategies

Online learning uses advanced tools that are sensitive to learners' needs, allowing them to use tools that fit their own way of learning. Creating a personalized learning environment like this is something modern educational theories focus on. Recognizing and adapting to different learning styles is crucial today, as it helps meet individual needs and preferences in the learning process (Shahabadi & Uplane, 2015).

Asynchronous strategies involve delivering educational content non-simultaneously, allowing students to access and participate on their schedule. Providing them with flexible hours and access to study from anywhere they would like. The strategies that we use allow students to develop strong language skills. These strategies prepare them to overcome challenges in their learning path. Students can share ideas at their convenient time. They have access to online material, resources such as videos, reading, and interactive activities allowing for self-directed learning (Mohammadi, 2023).

On the other hand, synchronous strategies involve real-time interactions between students and educators, facilitating collaboration and the exchange of ideas in real time. This type of learning provides connection and hands-on in real-time. the resources that are provided in real-time virtual classes through video conferencing. Students also can receive live classes and actively participate. They can ask questions and have real-time discussions. Educators can give individualized support through tutoring sessions. Students can work in groups on projects and assignments using online communication and collaboration tools to work effectively (Rochina & Cortezo, 2022).

As Amiti (2020) point out "asynchronous and synchronous teaching and learning strategies offer unique benefits in the current educational environment. Asynchronous strategies provide flexibility and autonomy, allowing students to manage their time and pace of learning".

Assessment through technology

Checking how well students are doing and keeping track of their progress in online classes is really important. This helps us see how they are doing, figure out where they need help, and make sure the education they are getting is good. We do this by using different ways like tests, assignments, looking at data, and giving students feedback that fits them personally. Doing this well helps students learn better and do well in their online classes (Oludare et al., 2012). As Bui (2022) points out, some elements that we can use for assess using digital learning:

Online Tests



Learning platforms such as Moodle or Blackboard allow the creation and administration of online tests, which can include multiple choice, true/false questions, and essays.

Digital Tasks and Projects

Students can complete practical tasks, such as essays, presentations, or research projects, using digital tools such as Google Docs, PowerPoint, or video editing tools.

Analysis of Participation and Activity

Educators can track student participation in online discussions, debate forums, and collaborative activities using analytics tools built into educational platforms.

Personalized Feedback

Educators can provide individualized feedback to students through written comments, and audio or video recordings, highlighting areas of strength and suggestions for improvement.

Some limitations of digital learning according to parents and the public are worried about how technology affects students' health, especially children who are more vulnerable to its negative effects. Scientists are still studying the potential harm from prolonged technology use. Spending too much time on computers can disrupt sleep, making it harder to fall asleep and shortening sleep time. The light from screens can also interfere with the production of melatonin, a sleep hormone. Certain content can cause physical and psychological arousal, making it even harder to sleep. Interactive activities like video games can affect sleep more than just browsing social media. Lack of sleep can lead to anxiety, depression, and lower self-esteem in teenagers (Kuznetsova & Azhmukhamedov, 2020).

Objectives

- 1. Promote critical thinking and encourage higher-level thinking and creativity.
- 2. To provide education in the use of Information and Communication Technology.
- 3. Facilitates new digital Learning Strategies.
- **4.** To promote computer-based educational resources.

3. METODOLOGÍA

This study is framed by a quantitative survey that was designed, explaining why certain methods were chosen based on theoretical and practical reasons. It discusses why specific data collection and analysis methods were selected, and how ethics, reliability, and validity were considered. It also describes how data was collected and analyzed in the study (Lo, 2023a). This research relies on gathering data that can be quantified, typically through different instruments. In this article we use a quantitative methodology that was used for various reasons of the learning process. Analysis was also conducted to measure the impact of different variables to define the engagement and experience of digital users of these methods. By this method we can get a better understanding of the effectiveness and usability of digital learning. As Mwita (2022) points out, "The analysis of a methodology must be carried out by the following factors: Sample, data collection and processes. ethics, reliability, and validity."

In this survey, 30 teachers were taken into consideration. The participants are all ESL high school institutions having at least five years of experience in the field of education as a control of this variable. There are 10 males and 20 females from Ecuador as a control of nationality for this variable.

In this study, a survey has been chosen as a method of data collection. It has been decided that this survey was going to give us more accurate experiences due to the questions that were asked of the teachers in this field. This allows participants freedom to answer questions therefore we were able to have an improved comprehension of digital learning process. This investigation began by inviting participants through an open advertisement posted in teaching groups on social media within the



institution where the study was conducted. The advertisement included basic details about the study and a short demographic survey for applicants. Potential participants were then manually screened based on specific criteria outlined earlier (Lo, 2023b).

Before taking any data collection a couple of ethical concerns were taken into account, First the anonymity of the participants to ensure their privacy to their sensitive information. Only authorized researchers had access to the information. We acknowledge their rights such as religious, cultural, and personal beliefs.

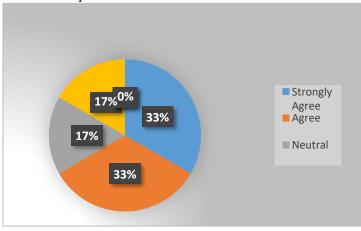
As has been discussed above, several factors may impact the reliability and validity of such research. We had to carry out our research based on a survey using a quantitative method. As a result, we performed a valuable database given by the teachers. Finding the percentage of this study as a result. As a validation the potential role that each participant took place was essential.

4. ANÁLISIS DE RESULTADOS

Survey

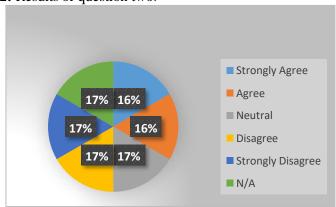
1. Do you implement strategies to encourage active student participation in a digital learning environment?

Image 1: Results of question one.



2. Do individual students progress managed and monitored in a digital environment?

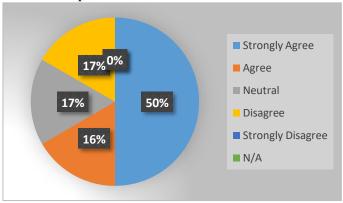
Image 2: Results of question two.





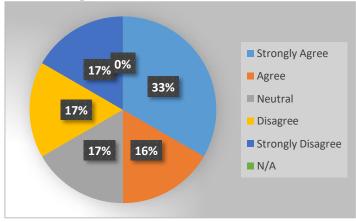
3. Do you think digital learning can provide more flexible learning opportunities for students?

Image 3: Results of question three.



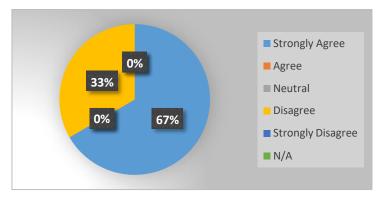
4. Do you think digital learning can promote autonomy and self-regulation in students?

Image 4: Results of question four.



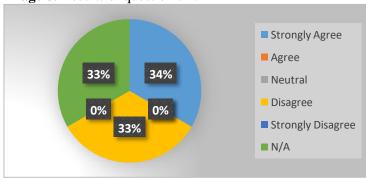
5. Do you believe that, in terms of educational quality, online learning can be just as successful as in-person learning?





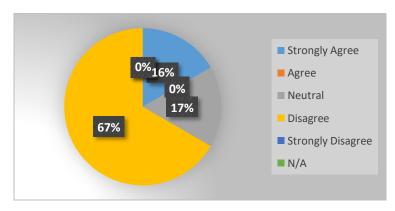
6. Do you believe that it is simple to modify digital learning to meet each student's unique needs?

Image 6: Results of question six.



7. Do you believe that the efficient delivery of educational content may be enhanced by digital learning?

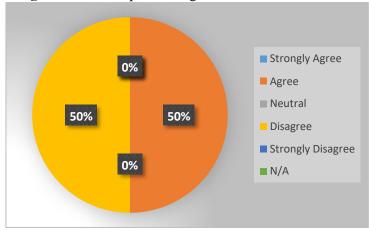
Image 7: Results of question seven.



8. Do you disagree that access to education may become unequal as a result of digital learning?

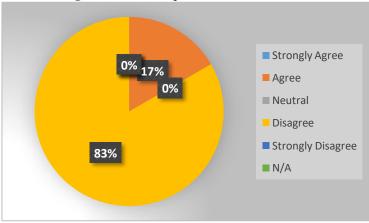


Image 8: Results of question eight.



9. Do you think that social interactions between students and professors can be hampered by digital learning?

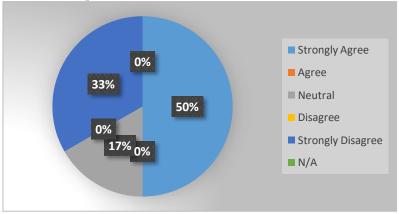
Image 9: Results of question nine.



10. Do you think that using digital learning can make education more accessible?



Image 10: Results of question ten.



In this survey, we aimed to gauge educators' perspectives on various aspects of digital learning. Participants were asked a series of questions. Each question was rated on a scale ranging from "Strongly Agree" to "N/A," allowing for a nuanced understanding of educators' opinions. Let's delve into the results of each question:

33% of teachers strongly agree to implement strategies to encourage active student participation in a digital learning environment.

16% of teachers agreed that individual students' progress is managed and monitored in a digital environment.

50% of educators strongly agree that they think digital learning can provide more flexible learning opportunities for students.

17% of educators strongly disagree, agree, and are neutral that digital learning can promote autonomy and self-regulation in students.

33% of educators disagree that, in terms of educational quality, internet learning can be just as successful as in-person instruction.

34% of educators vehemently disagree that it is simple to modify digital instruction to meet each student's unique needs.

6% of teachers strongly disagree and think that digital learning can improve efficiency in the delivery of educational content.

50% of educators agree and disagree with the notion that digital learning can generate inequalities in access to education.

83% of teachers disagree with the idea that digital learning can hinder social interaction between students and teachers.

17% of educators felt neutral and consider digital learning to be an effective tool to improve accessibility to education.

The survey results provide an outline of the perception of teachers from different high schools on the importance of how beneficial is to introduce digital learning to teach English as a second language. Below is a summary of the main findings according to the response percentages.



5. DISCUSIÓN

The query on whether education through technology will compete with or perhaps replace traditional education is becoming increasingly popular among experts studying educational issues. Some of these scholars believe that distant education is fundamentally flawed and ineffective. Change in the educational field is unavoidable, but these changes should not disrupt the fundamentals of the educational field in order to preserve the existing educational environment, including direct connection in the triad "student - teacher - parent". We consider that the deployment of new digital technology and digital goods necessitates a modification of old educational procedures, as well as the development of new education technologies that can first supplement traditional education while eventually replacing certain outmoded ways. (Puchkova & Sorokoumova, 2021)

In conclusion, teachers had differing opinions on whether their experience with online teaching was positive or negative. Some found it beneficial, citing access to abundant online resources, which freed up time. However, others felt it encroached on their work-life balance, seeing it as consuming more of their time (Lo, 2023c).

6. CONCLUSIÓN

In conclusion, Innovating Educational Practices through a Digital Environment have brought forth a transformative shift, offering opportunities and challenges to teachers and students alike. While digital learning has expanded accessibility and inclusivity, providing learners with flexible platforms and personalized experiences, it has also required educators to navigate new pedagogical strategies and technological tools. Despite initial hurdles such as adapting to virtual modalities and addressing disparities in technology access, the journey towards digital learning has emphasized the necessity of continuous professional development and institutional support for educators. This evolution in education is essential for preparing students to thrive in a digital age, equipping them with future-ready skills and enhancing engagement through innovative learning approaches. Moving forward, the effective integration of asynchronous and synchronous teaching strategies offers a dynamic framework for personalized and collaborative learning experiences. As educators harness the potential of digital tools and data-driven education, they can tailor instruction, monitor progress, and foster inclusive learning environments that cater to diverse student needs. By embracing these advancements and addressing associated challenges, educators can unlock the full potential of digital learning to empower the next generation for success in an increasingly interconnected world.



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CERTIFICADO

Por medio de la presente se hace constar que el artículo titulado "Teachers' perspectives & experience: innovating educational practices through a digital environment", de la autoría de Elaine Julissa Guaranda Suárez, Fátima Inés Gómez Freire y Johanna Stephania Freire Acosta, luego de la REVISIÓN POR PARES DOBLE CIEGO, ha sido ACEPTADO para su publicación en el Volumen 5 Número 1, que se publica mediante el modelo de publicación continua, de nuestra REVISTA INVECOM "Estudios transdisciplinarios en comunicación y sociedad" / INVECOM JOURNAL "Transdisciplinary studies in communication and society / Depósito legal ZU2021000004 / ISSN 2739-0063 / https://revistainvecom.org

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