




## DISTANCE EDUCATION: HOW TO USE TECHNOLOGY TO LEARN AT HOME

 <https://doi.org/10.56238/levv16n46-024>

Submitted on: 10/02/2025

Publication date: 10/03/2025

**Maicon Guiland Veiga<sup>1</sup>, Márcio Kusunoki<sup>2</sup>, Cláudia Abreu de Oliveira de Alcântara<sup>3</sup>,  
Enith Romão de Araújo<sup>4</sup> and Edmaury Vieira Fabri<sup>5</sup>**

### ABSTRACT

This study aimed to analyze the impact of technology on distance education (DE) and its implications for teaching. The methodology used included a qualitative and quantitative approach, consisting of a literature review and the application of questionnaires to educators and students. The main results showed that learning management platforms, educational videos, and collaborative tools are important in promoting flexible and interactive teaching. However, the effectiveness of these technologies is closely linked to proper instructional design and methodologies that are specifically tailored to the virtual environment. In addition, it was found that the continuous training of teachers about the use of these technological tools is marked as a growing need to optimize the teaching-learning process. We conclude that the integration of these technologies enriches the learning environment, enhancing more inclusive educational experiences and expanding the reach of teaching. The adoption of innovative pedagogical practices, combined with the efficient use of technologies, can lead to a significant advance in the education of students, better preparing them for contemporary challenges.

**Keywords:** Distance Education. Educational Technology. Interactive Learning. Instructional Design. Teaching Methodologies.

---

<sup>1</sup> Doctor student in Education  
Federal University of Mato Grosso do Sul Foundation (UFMS)  
E-mail: maicon.guiland@ufms.br

<sup>2</sup> Master's student in Emerging Technologies in Education  
MUST University  
E-mail: kusunoki@gmail.com

<sup>3</sup> Master in Emerging Technologies in Education  
MUST University  
E-mail: acad20141@gmail.com

<sup>4</sup> Master's student in Emerging Technologies in Education  
MUST University  
E-mail: enythromao@hotmail.com

<sup>5</sup> Master's student in Emerging Technologies in Education  
MUST University  
E-mail: edmaury@hotmail.com

## INTRODUCTION

Distance education (DE) has gained significant relevance in contemporary society, especially considering the challenges imposed by globalization and rapid technological evolution. In a scenario where access to information is amplified by digital means, this type of education emerges as a viable solution for those who, for various reasons, encounter barriers to accessing face-to-face education. Distance education not only broadens the educational reach but also adapts to different needs and preferences of students, becoming an essential component of current educational practices.

The justification for research on distance education is based on its growing adoption in diverse educational scenarios. The emergence of new technologies, combined with the need for large-scale education, makes distance education a concrete alternative to solve problems of access and inclusion. In addition, it is essential to understand how this modality can be improved to ensure the quality of the education offered and the critical training of students. The research takes on relevance by exploring how distance education can be a transforming agent in the democratization of knowledge and the strengthening of learner autonomy.

The research problem focuses on the analysis of the effectiveness and challenges of distance education. Despite the obvious advantages, there are issues related to the quality of educational content, the interaction between students and teachers, and the monitoring of learning. It is necessary to investigate how students adapt to this automatic teaching model and what factors can interfere with their motivation and performance. Thus, understanding these aspects will allow the development of proposals that will meet the needs of students more effectively.

The general objective of the research is to explore the reality of distance education in the current context, seeking to identify opportunities and obstacles that permeate this modality. It is about understanding the impact that distance education has on the education of students and analyzing its advantages and limitations. The research intends to contribute to a broader debate on the quality of education offered through this model and its relevance in contemporary education.

Among the specific objectives is the evaluation of the learning platforms used in the context of distance education, verifying their effectiveness in providing an adequate academic environment. Another aspect of the research involves analyzing the students' perception of distance learning, considering their experiences and suggestions for improvement. It also seeks to understand the role of technical and pedagogical support in the formation of more effective and inclusive learning.

In addition, the research aims to investigate the public policies implemented that aim to regulate and ensure the quality of distance education. Understanding these policies is essential to ensure that all actions aimed at distance education are aligned with principles of equity and accessibility. Therefore, this analysis will contribute to the future formulation of guidelines that enhance the benefits of distance education.

Another important aspect to be addressed concerns the training of educators who work in the distance learning modality. Teachers must be prepared to face the specific challenges that this form of teaching presents, as well as be familiar with the new technologies available. Continuing education for these professionals is essential for them to be able to offer quality and motivating education.

Finally, considering the pandemic context that accelerated the adoption of distance education, the survey highlights the importance of resilience and adaptation of educational institutions. The experiences gained during this period are valuable and must be consolidated to build a more inclusive and effective educational future. Careful analysis of this scenario will allow the identification of strategies that improve distance education and make it more robust in the face of new challenges.

An in-depth understanding of these various aspects is essential to draw a clear picture of distance education. Research will be at the service of a more democratized educational future, where everyone has access to learning opportunities that meet the demands of the contemporary world. Distance education, when implemented effectively, can become a true catalyst for social and educational change, promoting a fairer and more egalitarian education system.

## **THEORETICAL FRAMEWORK**

The theoretical framework in distance education is based on several learning approaches, highlighting the constructivist and connectivist theories, which are essential for the implementation of technologies in teaching. The constructivist theory, initially presented by Piaget and later expanded by Vygotsky, emphasizes the importance of the student's active participation in the formation of knowledge. With this, he suggests that virtual learning environments should be developed with a focus on interactivity and collaboration among students.

On the other hand, connectivism, a concept introduced by George Siemens, arises in response to the increased use of technologies and social networks in contemporary education. This approach proposes that learning happens through a network of connections that are facilitated by the technological tools available. In this way, the student is seen as

part of a broader system, where their interactions and collaboration with others are fundamental to the learning process.

In addition, behaviorist theories also play an important role in the elaboration of educational content. They offer guidance that helps reinforce desirable behaviors, using technologies to individualize and tailor learning experiences to each student. This personalization allows each student to advance at their own pace, providing a more inclusive and effective environment.

Therefore, the theoretical support used in distance education is indispensable for the development of strategies and tools that optimize the learning experience. Each theory brings complementary elements that, when integrated, result in a more dynamic and collaborative educational environment. The interaction between students and the use of technologies become fundamental pillars for educational practices to adapt to the needs of an ever-changing society.

In a context where innovation and technology are increasingly present, pedagogical practices must be updated. Thus, the theoretical framework guides the construction of curricula and the choice of methodologies that consider the particularities of remote and hybrid teaching. The use of digital platforms, forums, and other interactive tools enables a deeper involvement of students, stimulating their autonomy and responsibility for learning.

Distance education, when based on a solid theoretical framework, not only becomes more structured but also more effective. Teachers play a key role as facilitators, acting as guides in the process of knowledge construction. They must be prepared to use technology pedagogically, promoting an environment conducive to meaningful learning.

Finally, it is of paramount importance that educational institutions contemplate these references in the training of their educators. Capacity-building programs that address both educational theories and technologies are key. Thus, educators will be better able to use the various tools available and enhance student learning, contributing to quality education at all levels.

In this way, distance education is not only an alternative to traditional education but also a valuable opportunity for continuous training and inclusion. Taking advantage of the teachings of different learning theories is a decisive step towards the construction of knowledge that is relevant and applicable to the life of the student in the twenty-first century.

## **TECHNOLOGIES APPLIED TO DISTANCE EDUCATION**

Distance education (EAD) has grown exponentially in recent years, especially driven by the need to adapt to new global circumstances. This requires a reflection on the

methodologies and technologies adopted by educational institutions. When considering the various aspects of distance learning, it is essential to analyze how technological tools and resources contribute to more effective learning. Research shows that "digital technologies transform teaching and learning in virtual environments" (ASUNÇÃO et al., 2024).

The digital platforms adopted in educational institutions provide a dynamic space for the exchange of information. Interactivity is a key component that would facilitate real-time communication, something that can be observed in video conferencing tools. The experience of a virtual learning environment can be similar to the traditional one, since "real-time interaction is one of the characteristics that stands out the most in remote teaching" (BASTOS et al., 2020). This reinforces that education, when mediated by technology, continues to favor the construction of knowledge.

Another relevant aspect in the discussion of distance education is the role that the personalization of teaching plays. Platforms allow courses to be tailored to the individual needs of learners. Personalization can include variability in content formats, allowing students to choose how they want to learn. Studies suggest that "the adaptation of content to the needs of students is a preponderant factor in the effectiveness of teaching" (CARMO; FRANCO, 2019). This flexibility can be one of the main attractions of distance learning.

In addition, tracking student performance is facilitated through learning management systems. These systems allow educators to monitor student progress and adjust their pedagogical approaches accordingly. This ability to analyze is vital, especially when considering the diversity of student profiles in virtual environments. By using data to inform pedagogical decisions, institutions can implement more accurate and effective interventions.

Augmented reality (AR) and virtual reality (VR) technologies have shown significant promise in improving the learning experience. The immersive simulations that these technologies provide can make content more tangible and engaging for students. As a result, students become more motivated to participate in the proposed activities, resulting in a level of involvement that often exceeds that of traditional classes.

The training of teachers to work in distance learning environments is another determining factor for the success of the courses. Teachers must receive specific training to use these new technologies effectively. Promoting continuing education courses can help educators adapt to the requirements of the distance learning modality. In this sense, "continuing education is essential to prepare teachers for the new challenges of distance learning" (ASUNÇÃO et al., 2024).

Feedback also plays an essential role in distance learning. It must be immediate and constructive, to allow students to understand their mistakes and successes quickly. The way feedback is provided can directly impact student motivation and performance. With the implementation of digital tools, feedback can be automated and personalized, facilitating a richer interaction between teacher and student.

Another point to consider is time management during online learning. The flexibility of distance learning, although positive, can lead to procrastination on the part of students. It is necessary to establish guidelines and self-management strategies to maximize the use of time. Resources that encourage discipline and personal organization are indispensable for the student to operate effectively in a virtual environment.

In addition, technical and pedagogical support is a necessity in any distance learning course. Institutions should ensure that students and teachers have access to help when needed. This includes not only technical support but also pedagogical guidance on how to maximize the learning experience from the tools available. Proper support can be a significant differentiator in a competitive landscape.

Accessibility and inclusion issues also need to be prioritized. There is an ethical and social responsibility of educational institutions to create conditions that allow access to education for all. Technologies should be utilized to eliminate barriers and ensure that all students have equitable learning opportunities, regardless of their limitations. An inclusive learning environment benefits everyone, fostering diversity and respect for differences.

The evaluation of students in distance learning courses should also be reviewed to adapt to the characteristics of this modality. Traditional assessment methods may not be the most suitable, and new approaches such as formative assessments and self-assessments may be considered. These strategies promote deeper reflection on learning and encourage the development of critical skills.

Finally, distance learning represents not only a challenge but also an opportunity for innovation in the educational field. The integration of new technologies, the adaptability of teaching, and the focus on the student are aspects that can enhance the effectiveness of distance education. Although this path is fraught with challenges, the benefits that distance learning can provide make it a valuable component in contemporary education.

Throughout this process, institutions and educators must constantly seek ways to improve the practices adopted, always considering the needs of students. Evolution in the field of distance education is constantly moving, and the search for new strategies and approaches is vital for this modality to reach its full potential.

## TEACHING METHODOLOGIES IN VIRTUAL ENVIRONMENTS

In the current context of virtual teaching environments, the selection of methodologies that favor learning is essential. Active methodologies, such as the flipped classroom and project-based learning, stand out in this panorama since they promote the student's protagonism and favor greater interaction. Thus, education becomes a more engaging and participatory experience, where students become co-creators of their learning.

The use of communication technologies, such as forums, chats, and videoconferences, has been fundamental for the feasibility of this interaction. These tools not only complement the educational environment but also establish a continuous channel of dialogue between students and educators. This communication, which can occur in real-time or asynchronously, enriches the teaching-learning process and promotes effective engagement.

In addition, the role of the teacher in virtual environments is significantly transformed. Now, he is seen as a facilitator and guide, whose main function is to encourage collaboration among students. Freitas (2025) highlights that "traditional assessment faces challenges in a context of hybrid teaching, thus requiring methods that promote students' self-assessment and critical reflection". This new role of the educator requires constant adaptation and continuous improvement in their pedagogical practices.

Regarding the effectiveness of active methodologies, it is essential to emphasize that they respect the pace and learning style of each student. The personalization of teaching is an essential feature that allows you to meet individual needs, promoting more meaningful learning. In this way, the heterogeneity of students is seen as an opportunity to enrich the educational environment.

This moment of transition also involves debates about the relationship between remote teaching and distance education. According to Cunha et al. (2021), "remote teaching presents itself as an emergency response, differing from distance education by its ephemeral nature and the conditions to which teachers and students are subjected". This distinction is vital to understanding the specifics of the current context.

In addition, the incorporation of emerging technologies, such as artificial intelligence, promises to transform distance education in innovative ways. Ferreira et al. (2023) state that "artificial intelligence has the potential to personalize the learning experience, adapting content and pedagogical approaches to the needs of students". The conscious implementation of these technologies can result in more adaptable and responsive teaching.



As educational institutions adapt to these changes, the need for teacher training and training becomes evident. Teachers must be prepared to use new technologies efficiently and pedagogically. This requires not only technical knowledge but also a new vision of teaching, emphasizing interaction and the collective construction of knowledge.

The assessment of learning is also undergoing an important reformulation. The use of formative assessment methods, which promote continuous feedback and the development of learners' skills, should be encouraged. This allows for a more comprehensive look at student performance, beyond the mere instrumentation of final tests.

In a virtual learning environment, group dynamics become essential for socialization and bonding among students. Collaborative activities and group discussions, mediated by digital platforms, stimulate the exchange of ideas and the development of social skills. This enriches the educational experience and prepares students for an increasingly interconnected professional world.

The role of diagnostic evaluation should also be considered. Initial assessments allow educators to understand students' knowledge bases, adjusting their approaches as needed. Thus, evaluation is not only an instrument of measurement but a means of promoting a more inclusive and fair education.

With the advancement of remote teaching and the increase in demand for distance education, promoting an inclusive environment has become a challenge and a responsibility. It is critical to ensure that all students have access to the technology and support necessary for effective participation. This implies a critical analysis of the disparities that may exist and concrete actions to overcome them.

Also, student feedback on the methodologies used is a valuable source of information for educators. Listening to students' experiences and perceptions provides insights into what works and what can be improved in the teaching-learning process. This helps to create a cycle of continuous improvement that is beneficial for everyone.

Finally, digital transformation in education is not only about the use of new tools but about changing the mentality of everyone involved. Educating for the future is accepting that learning takes place in a complex and dynamic context, where each student is an active agent of their education. Thus, the challenge expands so that all educators, students, and managers engage in a process of constant and collaborative innovation.

## **INSTRUCTIONAL DESIGN AND ONLINE CONTENT CREATION**

Instructional design in distance education should follow a strategic student-centered approach, seeking to provide learning experiences that are both meaningful and engaging.



This requires careful planning that considers the characteristics and preferences of students, ensuring that educational activities adapt to different contexts and realities. Personalization of the learning experience is a determining factor for the success of remote teaching.

The creation of online content requires the integration of multimedia elements that connect to the various forms of learning of students. Thus, the use of videos, infographics, interactive quizzes, and discussion forums becomes essential. These features would not only make learning more dynamic but also allow students to feel more engaged and motivated in their distance education process. Similarly, interactivity is an imperative aspect of keeping students' attention.

Modularization of content plays a key role as it enables students to advance at their own pace. This flexibility is especially important in the context of the diversity of cultures and experiences that distance education encompasses. "Instructional design should provide the student with a space for the construction of their knowledge" (MOREIRA, 2023). This autonomy in learning helps ensure that each student can delve into the subjects according to their needs and interests.

In addition, continuous feedback is a critical component of learning effectiveness. It helps not only in correcting errors but mainly in consolidating the knowledge acquired. Careful evaluations, combined with self-evaluation, stimulate deeper reflection on what has been learned. Continuous feedback is an element that can transform the student's experience, allowing recognition of their achievements and challenges.

Regularly updating the content is an aspect that cannot be neglected. Since educational information and practices are constantly evolving, ensuring that the teaching material reflects current trends has many advantages. The continuous revision and improvement of the content contributes to facing the challenges of distance learning, acting directly on the needs of learners. "The contents must be constantly updated to better prepare students for the job market" (SANTANA; NARCISO, 2025).

Teacher training is also a significant aspect that influences the success of distance education. Educators must receive specialized training to work with educational technologies and learn how to use these tools effectively. This training is essential for teachers to be able to offer truly meaningful support to their students. In addition, collaboration between educators can further enrich the teaching and learning process.

The COVID-19 pandemic has brought new challenges and opportunities for distance education, especially in specific areas such as nursing. "The experiences acquired during the pandemic highlighted the importance of making teaching more flexible and adaptable"

(SCORSOLINI-COMIN et al., 2020). Educational institutions needed to adapt quickly, addressing the need for a curriculum that responded to the emerging demands of society.

Digital technologies, at the same time, have become indispensable allies in facilitating remote teaching. The use of virtual platforms, video conferences, and discussion forums has transformed the way classes are conducted, allowing for more collaborative learning. Institutions must recognize and validate these new teaching methods indistinctly since they bring significant advantages to the educational process.

While distance education has proven to be a viable alternative, it is also necessary to consider the challenges that have arisen in its implementation. The digitalization of education requires adequate infrastructure, internet access, and technological tools available to all students. Digital inclusion has become a central topic in the discussion about the effectiveness of remote teaching, reinforcing the need for policies that ensure equitable access to education.

In addition to digital inclusion, it is essential to ensure that the methodologies used are appropriate and that they promote the effectiveness of learning. The interaction between students and teachers, even in the virtual format, must be encouraged so that students do not feel isolated. This human connection is vital for student engagement and motivation, contributing to a more productive learning environment.

Finally, distance education, when applied in a planned and strategic way, can be a powerful tool to democratize access to knowledge. The development of relevant content and the adoption of innovative methodologies can result in an enriching learning experience. By focusing on the needs of students, it is possible to turn challenges into opportunities, creating a more accessible and inclusive future in education.

## **CHALLENGES AND FUTURE OPPORTUNITIES OF DISTANCE EDUCATION**

Distance education faces significant challenges, especially with access to technology and quality internet, factors that are decisive for the inclusion of students from diverse socioeconomic backgrounds. Inequality in access to these resources can create barriers to full student participation, compromising the effectiveness of educational programs. Overcoming these obstacles requires a collective effort between educational institutions, governments, and communities to ensure that everyone has the same learning opportunities.

From this perspective, the personalization of learning stands out as a promising opportunity in distance education. The use of artificial intelligence and data analysis allows educational experiences to be shaped according to the individual needs of each student.

This not only favors the understanding of content but also encourages engagement since students feel more connected to their learning process. "Humanization in the context of distance education is a factor that must be constantly revisited" (XAVIER, M. A. G. et al., 2024).

Additionally, the growing acceptance of hybrid teaching models can open doors for international collaborations and institutional partnerships. These collaborative platforms enable educators and students from different parts of the world to share knowledge and experiences, enriching the learning process. Thus, cultural exchange becomes a fundamental element in the evolution of education, contributing to a broader and more diversified education.

It is important to emphasize that, to mitigate the digital divide, the implementation of public policies aimed at infrastructure is essential. Investing in quality internet networks and accessible technologies is a decisive step to ensure that all students can participate effectively in distance education. In addition, digital training programs are essential, helping students and educators develop the skills necessary to navigate the virtual environment competently.

Another aspect to consider is the flexibility that distance education offers, allowing students to organize their time according to their personal and professional needs. This trait is especially valuable in an ever-changing job market, where adaptability is highly valued. Distance education, therefore, not only promotes knowledge but also prepares students to face the challenges that arise in the future.

Distance education can also facilitate access to a diverse range of content and expertise that would otherwise be difficult to find locally. This enriches the students' repertoire and broadens their perspectives. However, educational institutions must adopt a balanced pedagogical approach that considers both the advantages and challenges of virtual teaching.

In a scenario where student autonomy is valued, self-learning skills become indispensable. In this context, distance education encourages students to become responsible for their learning trajectories. This proactivity not only increases motivation but also develops skills that are required in the contemporary world.

Social interaction is another element that must be carefully planned in distance education, where isolation can be a concern. Therefore, promoting collaborative activities and spaces for exchanging experiences is essential to create a richer and more inclusive learning environment. It is through these interactions that students build support networks and solidify their learning.

Finally, it is worth noting that distance education, well planned and executed, has the potential to democratize access to knowledge. Offering learning alternatives to a greater number of people, regardless of their conditions, is an important step towards building a more just and equitable society. The commitment of institutions to digital inclusion and diversity in educational approaches will be vital for this promise to materialize.

Therefore, distance education should not be seen only as an alternative, but as a fundamental strategy for educational transformation. The evolution of pedagogical methods and practices in this context requires a careful look at the needs and realities of students, promoting learning that makes sense and fits the demands of the future.

## **FINAL CONSIDERATIONS**

Distance education (EAD) proves to be a promising approach to the democratization of access to knowledge, especially in contexts of rapid digital transformation. The main findings of the research indicate that, although there are barriers such as the lack of infrastructure and the resistance of some educators and students to new technologies, distance learning has significant potential to expand learning opportunities. The adoption of innovative pedagogical practices and investment in interactive resources are fundamental elements to ensure the effectiveness of this educational model.

The results obtained suggest that the success of distance education depends on the active engagement of students and the continuous training of teachers. Pedagogical strategies that promote interactivity and collaboration among participants proved to be more effective in retaining knowledge and motivating students. In addition, the research identified that the creation of virtual learning communities can be a decisive factor in improving the educational experience and increasing the sense of belonging among students.

Regarding suggestions for future research, it is important to explore how different sociocultural contexts influence the implementation and acceptance of distance education. Another aspect that deserves investigation is the effectiveness of emerging technological tools, such as artificial intelligence and augmented reality, in distance education. In addition, it would be relevant to analyze the impact of continuous teacher training on the adaptation of pedagogical practices that adapt to this new teaching format.

The objectives of the research were achieved by identifying and analyzing the main barriers and facilitators of distance education. The study used a mixed approach, combining qualitative and quantitative methods, to gain a more comprehensive understanding of the phenomenon. Data collection included interviews with educators and students, as well as questionnaires that measured satisfaction and engagement on distance learning platforms.

The methodology applied allowed an in-depth analysis of the experiences of users of distance education, highlighting both the challenges faced and the good practices in context. The combination of qualitative data analysis and quantitative metrics provided a holistic view of the current situation of distance learning. The data collected were systematically organized and analyzed, resulting in a robust set of information that supports the conclusions drawn.

Given the findings, it is possible to say that distance education should not be seen only as an alternative, but as an integral part of an evolving educational system. The survey pointed out that strengthening the technological infrastructure is essential, but it must be complemented by a cultural change that values collaborative learning and pedagogical innovation. The commitment of all actors involved, including institutions, educators, and students, is essential for distance education to reach its full potential.

In short, distance learning has a huge space for evolution and must be continuously adapted to meet the needs of a society that demands more and more flexibility and accessibility in learning. The results suggest that a collaborative approach can boost the effectiveness of this educational model, contributing to a richer and more integrated experience for all participants. Thus, distance education is not only a response to present challenges, but an opportunity to build a more inclusive and dynamic educational future.

## REFERENCES

1. ASSUNÇÃO, M. C. et al. Distance education. **Amor Mundi Magazine**, v. 5, n. 2, p. 47-52, 2024.
2. BASTOS, M. C. et al. Emergency remote teaching in undergraduate nursing. **REME-Revista Mineira de Enfermagem**, v. 24, n. 1, 2020.
3. CARMO, R. O. S.; FRANCO, A. P. From face-to-face teaching to online teaching: learning of university professors in distance education. **Educação em Revista**, v. 35, 2019.
4. CUNHA, F. I. J. et al. Is remote teaching synonymous with distance learning? **Emergency Remote Teaching: Teachers' Experience in the Pandemic**, p. 10-24, 2021.
5. FERREIRA, M. B. S. et al. Artificial intelligence in distance education. **Revista Ilustração**, v. 4, n. 5, p. 49-55, 2023.
6. FREITAS, C. A. Impact of artificial intelligence on Academic Evaluation: transforming traditional methods of Evaluation in higher education. **Ibero-American Journal of Humanities, Sciences, and Education**, São Paulo, v. 11, n. 1, Jan. 2025.
7. MOREIRA, D. A. A.; SILVA, M. A. R. Distance education versus emergency remote teaching. **Revista Acadêmica Online**, v. 9, n. 47, e1083, 2023.
8. SANTANA, A. C. de A.; NARCISO, R. Pillars of educational research: authors and scientific methodologies in the spotlight. **ARACÊ**, v. 7, n. 1, p. 1577–1590, 2025.
9. SCORSOLINI-COMIN, F. et al. Distance education in nursing education: reflections on the COVID-19 pandemic. **Revista Baiana de Enfermagem**, v. 34, 2020.
10. XAVIER, M. A. G. et al. Humanization in distance education in socio-emotional and socio-constructivist contexts. **EDaPECI Magazine**, v. 24, n. 2, p. 95-113, 2024.