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1.Harold Jan R. Terano

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3.Massoud Kaykhaii







DIGITAL INNOVATION IN ENGLISH LANGUAGE EDUCATION

Abdimuminova Khurriyat Abdimuminovna
Lecturer and Researcher at the Department of Information Systems and Digital Economy, International Digital University
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Abstract: This research takes a deep look at how new digital tools are being used to help university students learn English. It focuses on modern technologies that are becoming part of our daily lives, such as mobile phone apps, artificial intelligence (AI), automatic translation tools, chatbots and virtual reality (VR). The goal was to see if these tools actually help students get better at speaking, listening, reading and writing, as well as improving their vocabulary and pronunciation. The research shows that using these digital tools can make students much more interested and excited about learning English. Because these tools are often on mobile devices, students have the freedom to practice anywhere, not just inside a classroom. This helps them become more independent learners. For example, phone apps are very good at helping students remember new words and AI tools can help them practice how they sound. However, the study found that technology only works well if teachers know how to use it properly. It is not enough for a teacher to just know what a tool is, they must have a clear plan for how to use it to reach specific learning goals. Many teachers currently have the technology but lack the practical training to use it in their lessons. The main argument is that digital tools should be used as a helpful extra to support traditional teaching, not to replace the teacher entirely. The study concludes that we need better training for teachers and more research to prove exactly how these new gadgets help students succeed in the long run.

Key words: Digital Technologies, Mobile-Assisted Language Learning (MALL), Artificial Intelligence (AI), Learner Autonomy, Teacher Digital Competence, Applied Language, Vocabulary Retention.

Today's university students belong to Generation Z and the upcoming Generation Alpha. These students are "digitally literate", "technologically savvy" and considered to be "permanently connected" to the digital world. Because technology is an inseparable part of their daily lives, English language education must change to fit this new environment. Learning is no longer limited to a traditional classroom, instead, it happens in a variety of settings where students manage their own "digital identities". Modern technologies are creating exciting new ways to practice English. These include: Mobile Applications (Currently the most common tool, these are highly effective for building and remembering vocabulary). Artificial Intelligence (AI) and Chatbots (Tools like Google Assistant and Siri allow students to practice pronunciation and speaking skills). Machine Translation (MT) (Programs like Google Translator help students solve grammar problems and write more complex sentences). Virtual Reality (VR) (This technology provides an "immersive context", allowing students to practice English in a simulated real-world environment).

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Research shows that when technology is used correctly, it provides several major advantages. Higher Motivation - students often find digital learning to be “fun”, “enjoyable” and “less stressful”, which makes them more involved in their studies. Independence - technology supports “self-directed learning” (students can practice English on their own time outside of school). Better Skills - these tools have been proven to improve reading comprehension, listening, writing fluency and the ability to understand daily conversations.

Simply having access to technology does not guarantee that a student will learn English successfully. There are still several “significant” problems:

Teacher training: While many teachers know about technology, they often do not know how to practically implement it in a lesson[1].

Technical limits: AI tools can struggle to recognize different accents and machine translation still makes errors that students must be trained to notice.

Lack of proof: For newer tools like VR and chatbots, there is still a “serious lack” of long-term experimental research to prove exactly how useful they are.

Effective English teaching in 2026 requires a “balanced approach” where technology supports rather than replaces the teacher. For technology to work, it must be integrated with clear “pedagogical objectives” (it must have a specific purpose in the lesson). Teachers must act as “role models” and receive professional training to guide students toward meaningful results. Ultimately, the goal is to combine the best parts of traditional teaching with the power of digital innovation to help students succeed.

Digital innovation is vital today because students (known as Generation Z and Generation Alpha) are “technologically savvy” and “permanently connected”. For these students, technology is an “indispensable part of their everyday life”. Because they already use digital tools for communication and fun, English teaching must include these technologies to match the way students actually live and learn. Tools like mobile apps, artificial intelligence (AI), machine translation and virtual reality (VR) make learning more flexible and personal. These technologies allow for “self-directed learning” (students can practice English anywhere), not just in a classroom. This research is significant because these tools are proven to help in specific ways: vocabulary - mobile apps are the most efficient tools for helping students remember new words and keep them in their long-term memory; speaking and fluency - chatbots and VR create “immersive contexts” where students can practice speaking in real-world situations, which makes them more fluent; motivation - using technology makes learning feel “fun” and “less stressful”, which makes students more involved in their studies.

The study highlights a major problem - simply having a computer or an app does not guarantee a student will learn better. The true value of technology depends on “purposeful implementation”. This means a teacher must have a clear pedagogical plan for how a tool will actually improve a specific skill, like writing or listening. Currently, there is a “serious lack” of practical research on how to do this correctly.

[1] Klimova, B., Pikhart, M., Polakova, P., Cerna, M., Yayilgan, S.Y., Shaikh, S. (2023). A Systematic Review on the Use of Emerging Technologies in Teaching English as an Applied Language at the University Level // Systems, 11(42). https://doi.org/10.3390/systems11010042

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This research is important because it shows that technology cannot replace teachers, it should only complement traditional instruction. For this to work, teachers must have "relevant subject, technological and pedagogical knowledge". This study argues that we must move away from just "using gadgets" and toward a system where teachers are trained to use digital tools as a "pedagogical guide". For university students, learning with technology is about more than just English, it is about preparing for a digital professional environment. It helps them develop "21st-century skills" like critical thinking, digital identity management and collaboration. By training teachers to use these emerging tools responsibly, universities can ensure that graduates are ready for the modern workplace.

Even though digital gadgets and software are evolving faster than ever, they are not being used in a consistent or organized way in English classrooms. Simply having a computer or an app available does not mean that learning is actually happening. Currently, there is a major disconnect because these tools are often thrown into a lesson without a specific educational goal in mind. The new generations of students (Generation Z and Alpha) consider technology a natural part of their daily life. However, many university teachers are facing a "serious challenge". While they might know that tools like neural translation exist, they often lack the hands-on experience and training needed to choose the right software or use it effectively during a lesson. We still do not have enough solid, long-term proof that the newest inventions - like talking robots, chatbots, or virtual reality (VR) - actually lead to better test scores or language skills. Most current studies are too short or focus only on whether students enjoyed the activity, rather than providing statistically reliable data on their actual English progress. Existing technology is far from perfect. For instance, artificial intelligence often has trouble understanding different accents compared to a human listener. Furthermore, machine translation can make mistakes and mobile apps often fail to teach how a word's meaning changes depending on the situation. Because of these "limitations", students cannot learn effectively by themselves and still require constant support from a teacher. The core issue is that we have many digital tools but no clear "pedagogical guidance" on how to use them for a specific purpose. To fix this, technology should stop being treated as just an 'extra" or "supplementary" item in the corner of the room. Instead, there must be a shift toward a system where the teacher is a "role model" who uses these innovations to help students become more independent and stay motivated to achieve real language results.

This research explores the educational value of modern gadgets in English classes. It looks closely at tools like smartphone apps, smart computer programs (AI), translation websites and virtual worlds. The main goals of the study are:

Improving skills - to see how these tools help students reach goals like learning new words, speaking more clearly and listening better;

Boosting interest - to find ways to make students more excited about their lessons and help them study on their own without needing constant help;

Learning anywhere - to show how students can keep practicing English in their daily lives, making sure learning does not just happen inside a school building;

The teacher's new job - to explain how instructors are becoming guiding experts who show students how to use tech effectively;

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Using tech with a goal - to prove that teachers need special training and a clear plan to make sure these new tools actually help students succeed, rather than just being used for fun.

Conclusion: Modern digital tools have the power to completely change how we teach English. They make learning more active and give students more control over their own progress. Tools like cell phone programs, smart computer assistants (AI), automatic translators and virtual reality help students improve in many areas, such as remembering new words, speaking more clearly and understanding what they hear or read. These tools also help students stay excited about their studies and allow them to keep practicing English in their daily lives, even when they are not in a classroom. However, the technology itself does not guarantee success. The most important thing is having a clear teaching plan for how to use these tools. Digital programs should not take the place of a human teacher, instead, they should work alongside regular classroom lessons to make them better. Teachers must act as mentors and experts who show students how to use these gadgets effectively to reach their learning goals. To make this happen, it is vital to give teachers better hands-on training so they feel confident using these new systems. Moving toward a smart, technology-based way of teaching helps students become more independent and skilled in English. This approach not only improves their language ability but also ensures that university students are ready for the high-tech jobs and academic challenges they will face in the future.

References

1. Klimova, B., Pikhart, M., Polakova, P., Cerna, M., Yayilgan, S.Y., Shaikh, S. (2023). A Systematic Review on the Use of Emerging Technologies in Teaching English as an Applied Language at the University Level // Systems, 11(42). https://doi.org/10.3390/systems11010042