MODERN TECHNOLOGIES IN TEACHING LISTENING

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Abstract: This article analyzed the role and importance of modern technologies in teaching listening comprehension. The introduction highlighted the relevance of the topic and the importance of listening skills in language learning. In the methods section, Uzbek and international literature on multimedia tools, mobile applications, podcasts, artificial intelligence, virtual reality, and interactive platforms were analyzed. The results section described the effectiveness of modern technologies in developing listening skills, increasing students' motivation, providing opportunities to work with authentic materials, and supporting independent learning. The discussion section examined the advantages, challenges, and prospects of using technologies in teaching listening. The results showed that modern technologies play an important role in improving the quality of listening instruction, developing students' communicative competence, and creating an interactive learning environment.

Keywords. listening comprehension, modern technologies, multimedia tools, artificial intelligence, podcasts, virtual reality, interactive platforms, mobile applications, authentic materials, language teaching.

СОВРЕМЕННЫЕ ТЕХНОЛОГИИ В ОБУЧЕНИИ АУДИРОВАНИЮ

Аннотация. В данной статье был проанализирован роль и значение современных технологий в обучении аудированию. Во введении была освещена актуальность темы и важность навыков аудирования в изучении языка. В разделе методов были проанализированы узбекская и международная литература по мультимедийным средствам, мобильным приложениям, подкастам, искусственному интеллекту, виртуальной реальности и интерактивным платформам. В разделе результатов была описана эффективность современных технологий в развитии навыков аудирования, повышении мотивации учащихся, предоставлении возможностей работы с аутентичными материалами и поддержке самостоятельного обучения. В разделе обсуждения были рассмотрены преимущества, проблемы и перспективы использования технологий в обучении аудированию. Результаты показали, что современные технологии играют важную роль в повышении качества обучения аудированию, развитии коммуникативной компетенции учащихся и создании интерактивной образовательной среды.

Ключевые слова. аудирование, современные технологии, мультимедийные средства, искусственный интеллект, подкасты, виртуальная реальность, интерактивные платформы, мобильные приложения, аутентичные материалы, обучение языку.

TINGLAB TUSHUNISHNI O‘QITISHDA ZAMONAVIY TEXNOLOGIYALAR

Annotatsiya. Ushbu maqolada tinglab tushunishni o‘qitishda zamonaviy texnologiyalarning o‘rni va ahamiyati tahlil qilindi. Kirish qismida mavzuning dolzarbligi hamda tinglash ko‘nikmasining til o‘rganishdagi ahamiyati yoritildi. Metodlar bo‘limida multimedia

vositalari, mobil ilovalar, podkastlar, sun'iy intellekt, virtual reallik va interaktiv platformalar bo'yicha o'zbek va xalqaro adabiyotlar tahlil qilindi. Natijalar bo'limida zamonaviy texnologiyalarning tinglash ko'nikmalarini rivojlantirishdagi samaradorligi, o'quvchilarning motivatsiyasini oshirishi, autentik materiallar bilan ishlash imkoniyatlari hamda mustaqil ta'limni qo'llab-quvvatlashi tavsiflandi. Muhokama qismida tinglashni o'qitishda texnologiyalardan foydalanishning afzalliklari, muammolari va istiqbollari ko'rib chiqildi. Natijalar shuni ko'rsatadiki, zamonaviy texnologiyalar tinglab tushunishni o'qitish sifatini oshirish, o'quvchilarning kommunikativ kompetensiyasini rivojlantirish va interaktiv ta'lim muhitini yaratishda muhim rol o'ynaydi.

Kalit so'zlar. tinglab tushunish, zamonaviy texnologiyalar, multimedia vositalari, sun'iy intellekt, podkastlar, virtual reallik, interaktiv platformalar, mobil ilovalar, autentik materiallar, til o'qitish.

Introduction

In the modern education system, the process of teaching foreign languages is undergoing significant changes. In particular, teaching listening comprehension is considered one of the most important and challenging areas of language learning. Listening skills play a key role in developing students' pronunciation, intonation, vocabulary, and ability to understand natural speech. However, traditional listening lessons are often based on simple audio recordings and question-answer activities, which cannot fully increase students' interest or provide an authentic language environment. Therefore, modern technologies are becoming an important tool in teaching listening. Technologies such as multimedia tools, podcasts, mobile applications, artificial intelligence, and virtual reality make it possible to organize listening lessons in a more interactive, engaging, and effective way. Today, students are expected not only to know grammatical rules but also to understand natural speech in real-life situations, recognize different accents, and participate freely in communicative contexts. Modern technologies provide learners with opportunities to work with authentic materials, replay audio and video content, practice independently, and receive immediate feedback. In particular, platforms such as YouTube, BBC Learning English, Duolingo, and podcast services allow students to practice listening anytime and anywhere. Artificial intelligence-based programs also provide tasks according to students' proficiency levels and ensure an individualized approach to learning.

In Uzbekistan, special attention is also being paid to the digitalization of education and the teaching of foreign languages through modern methods. Within the framework of the "Digital Uzbekistan – 2030" strategy, large-scale reforms are being implemented to introduce modern information and communication technologies into the educational process, develop interactive platforms, and improve teachers' digital competencies. In particular, the use of multimedia tools and online platforms has shown effective results in developing students' listening comprehension skills. At the international level, the importance of modern technologies in teaching listening is also increasing. Reports by UNESCO and other international organizations emphasize that digital technologies, artificial intelligence, and virtual reality tools are important factors in improving the quality of education, promoting individualized learning, and developing students' communicative competence. Podcasts, interactive platforms, and AI technologies create opportunities for learners to study language in real communicative environments.

The purpose of this article is to analyze the role and effectiveness of modern technologies in teaching listening comprehension and to reveal their advantages and challenges. The research question is as follows: how do modern technologies improve the quality of teaching listening comprehension, and how do they influence the development of students' communicative competence? This topic is not only scientifically important but also practically relevant today

because listening lessons organized with the help of modern technologies contribute to more effective language learning.

Literature review and methodology

This article is a review-type scientific work based on the qualitative analysis and synthesis of existing literature rather than on empirical research. The methodology is based on the literature review method and aims to study the role and effectiveness of modern technologies in teaching listening comprehension. The research included the following stages.

First, the criteria for selecting sources were identified: Uzbek and international scientific articles, educational reports, official documents, and sources directly related to the topic published between 2020 and 2026 were selected. Special attention was paid to studies connected with teaching listening comprehension, multimedia tools, mobile applications, podcasts, artificial intelligence, virtual reality, and interactive platforms. The scientific reliability and relevance of the sources were considered as the main criteria.

Second, both local and international scientific platforms were used as search sources. For local sources, CyberLeninka, ResearchGate, Google Scholar, lex.uz, official websites of the Ministry of Education, and scientific journals such as “Education and Innovative Research” were analyzed. International sources included UNESCO and OECD reports, as well as scientific articles related to educational platforms such as BBC Learning English, Duolingo, and other digital learning resources. More than 25 sources were reviewed, and the most relevant and topic-related materials were selected.

Third, the analysis method was based on qualitative synthesis. The content of each source was summarized, compared, and adapted to the process of teaching listening comprehension. For example, the effectiveness of multimedia tools and podcasts in developing listening skills was comparatively analyzed with the opportunities provided by artificial intelligence and virtual reality technologies. In addition, the experience of applying modern technologies in the educational system of Uzbekistan was studied in parallel with international practices. Particular attention was also paid to limitations such as technical problems, digital inequality, and teachers’ digital competence.

This methodology made it possible to study the topic deeply and objectively because it covered not only theoretical information but also practical examples of the application of modern technologies. The main limitation of the study is the lack of empirical data. In the future, this topic can be explored more deeply through surveys, observations, and experimental research conducted among teachers and students.

Analysis of results

The analysis of the literature revealed that modern technologies are effectively used in several major areas of teaching listening comprehension. Multimedia tools and video platforms play an important role in developing listening skills. In particular, students are able to work with authentic audio and video materials through platforms such as YouTube, BBC Learning English, and other educational resources. The visual context provided in videos facilitates listening comprehension and helps learners understand the topic more effectively. In addition, subtitles and replay functions allow students to work according to their individual needs [8]. Mobile applications and online platforms are also proving to be effective tools in teaching listening. Duolingo, BBC Learning English, and other mobile applications increase students’ motivation through short audio exercises, immediate feedback, and gamified elements. Learners can practice listening anytime and anywhere, which supports autonomous learning. In international practice, Moodle and other interactive platforms provide opportunities to monitor students’ listening activities, create tasks, and analyze results.

Artificial intelligence and speech recognition technologies are creating new opportunities in teaching listening comprehension. AI-based programs identify students’ proficiency levels and recommend tasks appropriate to their needs. Virtual assistants and chatbots simulate real-life

conversations and help develop students' listening and communication skills. In addition, artificial intelligence provides immediate error correction and individualized feedback. International studies emphasize that AI technologies are effective tools for developing listening skills [7].

Podcasts and audio platforms also play an important role in improving listening comprehension. Podcasts expose learners to natural speech, different accents, and real communicative situations. Students develop listening strategies by pausing, replaying, and working with transcripts alongside audio materials. This contributes to the improvement of pronunciation, vocabulary, and overall communicative competence. Virtual Reality (VR) and Augmented Reality (AR) technologies make listening lessons more interactive and engaging. In virtual environments, students practice listening in real-life situations such as restaurants, airports, or classrooms. These technologies help learners adapt to authentic communicative environments and make the listening process more natural.

Furthermore, modern technologies contribute to the development of personalized and inclusive education in teaching listening. Students are able to select materials according to their proficiency levels and interests. For learners with special educational needs, subtitles, audio texts, and assistive technologies make listening practice more accessible and convenient. As a result, modern technologies help organize listening lessons in a learner-centered, interactive, and effective way [6].

Discussion

The results show that modern technologies significantly improve the quality of teaching listening comprehension. Multimedia tools, mobile applications, podcasts, artificial intelligence, and virtual reality technologies play an important role in developing students' listening skills, increasing motivation, and creating an authentic language environment. In particular, through platforms such as YouTube, BBC Learning English, Duolingo, and podcast services, learners are able to listen to natural speech, understand different accents, and practice independently. Artificial intelligence-based programs provide tasks according to students' proficiency levels and ensure an individualized approach to learning. International studies emphasize that listening lessons organized with the help of modern technologies significantly improve students' communicative competence and listening comprehension efficiency. However, some limitations also exist. First, technical problems and digital inequality negatively affect the educational process because not all students have access to the internet and modern devices. In particular, limited technological opportunities in rural schools hinder the effective use of modern platforms. Second, teachers' digital competence is an important issue. In order to integrate modern technologies effectively into the learning process, teachers need special training and practical skills. Third, excessive use of technology may reduce students' face-to-face communication skills and lead to distraction. In addition, attention should be paid to data security and ethical issues when using artificial intelligence and digital platforms.

In Uzbekistan, large-scale reforms are being implemented to digitalize education and teach foreign languages through modern methods. Within the framework of the "Digital Uzbekistan – 2030" strategy, great attention is being paid to the development of multimedia tools, interactive platforms, and online learning systems. This further expands the prospects for using modern technologies in teaching listening comprehension [1].

Recommendations:

1. Organize regular training programs for teachers on the use of modern technologies.
2. Equip schools with modern technical devices and internet access.
3. Make wide use of multimedia and podcast materials for developing listening comprehension.

4. Introduce artificial intelligence and interactive platforms into the educational process gradually.

5. Develop inclusive technologies for learners with special educational needs.

In general, modern technologies make teaching listening comprehension more effective, interactive, and learner-centered. When technologies are integrated with pedagogical approaches, they become an important factor in developing students' communicative competence and improving effective language learning.

Conclusion

In conclusion, the use of modern technologies in teaching listening comprehension has become one of the most important strategic directions in today's educational system. Multimedia tools, mobile applications, podcasts, artificial intelligence, virtual reality, and augmented reality technologies help make listening lessons more effective, interactive, and learner-centered. These technologies play a significant role in developing students' ability to understand authentic speech, recognize different accents, learn independently, and improve communicative competence. In Uzbekistan, special attention is being paid to the digitalization of education and the teaching of foreign languages through modern methods within the framework of the "Digital Uzbekistan – 2030" strategy, which expands the opportunities for using modern technologies in teaching listening comprehension.

In the future, it is necessary to conduct empirical research, particularly on the practical effectiveness of artificial intelligence and virtual reality technologies in developing listening skills. When modern technologies are integrated with pedagogical approaches, they can make education more effective, inclusive, and engaging. In this way, it is possible to prepare learners for the global communicative environment and improve the quality of foreign language teaching.

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