

METHODOLOGY FOR DEVELOPING PUBLIC SPEAKING SKILLS THROUGH DIGITAL TECHNOLOGIES

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Annotatsiya.

Ushbu maqolada raqamli texnologiyalar yordamida ommaviy nutq so'zlash ko'nikmalarini rivojlantirishning zamonaviy metodologik asoslari tahlil qilinadi. Tadqiqotda ommaviy nutq ko'nikmalarini rivojlantirishda onlayn ta'lim platformalari, videokonferensiya tizimlari, virtual va kengaytirilgan reallik texnologiyalari, sun'iy intellekt asosidagi nutq tahlili dasturlari hamda mobil ilovalarning imkoniyatlari o'rganildi.

Kalit so'zlar: ommaviy nutq, raqamli texnologiyalar, kommunikativ kompetensiya, sun'iy intellekt, onlayn ta'lim, .

Аннотация.

В данной статье анализируются современные методологические подходы к развитию навыков публичных выступлений посредством цифровых технологий. В исследовании рассматриваются возможности онлайн-образовательных платформ, систем видеоконференцсвязи, технологий виртуальной и дополненной реальности, мобильных приложений и инструментов анализа речи на основе искусственного интеллекта.

Ключевые слова: публичное выступление, цифровые технологии, коммуникативная компетентность, искусственный интеллект, онлайн-обучение .

Abstract.

This article examines contemporary methodological approaches to developing public speaking skills through digital technologies. In the context of rapid digital transformation and globalization, the ability to communicate effectively, speak confidently before an audience, and present ideas persuasively has become an essential competence for students and professionals. Particular attention is paid to the role of digital tools in improving pronunciation, speech fluency, audience engagement, presentation skills, and overall speech culture.

Keywords: public speaking, digital technologies, communicative competence, artificial intelligence, online learning .

Introduction

In the twenty-first century, digital technologies have transformed almost every aspect of human life, including education, communication, and professional development. As globalization continues to expand opportunities for international collaboration and information exchange, effective communication has become one of the most essential competencies for students and professionals. Among various communication skills, public speaking plays a critical role in academic success, career advancement, leadership development, and social interaction. Public speaking is the ability to convey ideas, information, and opinions effectively to an audience through verbal and non-verbal communication. However, many learners experience difficulties such as anxiety, lack of confidence, poor pronunciation, insufficient audience engagement, and limited presentation skills. Traditional approaches to teaching public speaking often rely on classroom-based activities and face-to-face presentations, which may not provide sufficient opportunities for continuous practice, personalized feedback, and self-assessment. The rapid development of digital technologies has created new possibilities for enhancing public speaking instruction. Online learning platforms, video conferencing applications, speech analysis software, mobile learning tools, artificial intelligence (AI), and virtual reality (VR) environments provide innovative opportunities for learners to practice and improve their speaking abilities. These technologies allow students to receive immediate feedback, analyze their performance, monitor their progress, and engage in interactive learning experiences regardless of geographical limitations. Furthermore, artificial intelligence-based applications can evaluate speech fluency, pronunciation, intonation, speaking pace, and vocabulary usage, offering personalized recommendations for improvement. Virtual reality technologies create realistic presentation environments where learners can simulate public speaking situations and overcome communication anxiety in a safe and controlled setting.

The concept of public speaking has been studied extensively within communication and educational sciences. According to classical rhetorical theory, effective public speaking involves the strategic use of ethos, pathos, and logos to persuade audiences. Modern communication theories emphasize not only the delivery of information but also audience engagement, critical thinking, confidence, and non-verbal communication skills. Researchers argue that successful public speakers possess a combination of linguistic competence, emotional intelligence, audience awareness, and presentation skills. Public speaking is therefore considered a multidimensional competency that requires continuous practice and constructive feedback. Educational institutions increasingly recognize the importance of integrating public speaking training into curricula to prepare students for future academic and professional challenges. Communicative competence refers to an individual's ability to communicate effectively and appropriately in different contexts. Public speaking

represents a significant component of this competence because it requires the integration of language proficiency, discourse organization, strategic communication, and social interaction skills. Numerous studies have demonstrated that students with strong public speaking abilities tend to perform better academically and professionally. Effective speaking skills contribute to leadership development, teamwork, problem-solving, and decision-making capabilities. However, many learners experience speech anxiety, lack of confidence, and limited opportunities for authentic speaking practice. These challenges highlight the need for innovative teaching methods that support the development of communication skills in diverse learning environments. The rapid advancement of digital technologies has transformed educational practices worldwide. Digital learning environments provide flexible, interactive, and learner-centered approaches to skill development. Online platforms, learning management systems, mobile applications, and multimedia resources have expanded access to educational content and created new opportunities for communication training. Researchers emphasize that technology-enhanced learning encourages active participation, independent learning, and continuous self-assessment. Through digital platforms, learners can access instructional materials, collaborate with peers, record presentations, and receive feedback regardless of geographical limitations. As a result, digital technologies have become valuable tools for improving communication and presentation skills. The integration of technology into education aligns with constructivist learning theories, which suggest that learners acquire knowledge more effectively through active engagement and meaningful interaction. Digital tools facilitate such interactions by creating environments where students can practice, reflect, and improve their performance continuously. Artificial Intelligence (AI) has emerged as a powerful educational technology with significant potential for public speaking training. AI-based speech analysis systems can evaluate various aspects of oral communication, including pronunciation accuracy, speech fluency, vocabulary richness, intonation patterns, and speaking pace. Studies indicate that immediate and personalized feedback provided by AI tools helps learners identify weaknesses and monitor progress more effectively than traditional assessment methods. Unlike conventional classroom settings, where individual feedback may be limited due to time constraints, AI systems offer continuous evaluation and targeted recommendations. Furthermore, machine learning algorithms can analyze speech patterns and generate customized learning pathways based on individual performance. This personalized approach increases learner motivation, engagement, and self-confidence. Consequently, AI technologies are becoming increasingly important in communication education and skill development programs. Virtual Reality (VR) and online communication platforms have introduced new possibilities for public speaking education. VR technology enables learners to practice speeches in simulated

environments that closely resemble real-life presentation settings. Virtual audiences, conference rooms, and classroom simulations allow students to gain experience without the pressure associated with actual public speaking situations. Research findings suggest that repeated exposure to virtual speaking environments reduces communication anxiety and improves presentation confidence. Learners can experiment with different speaking strategies, receive feedback, and refine their performance in a safe and controlled environment. In addition, video conferencing platforms such as Zoom, Microsoft Teams, and Google Meet have become essential tools for communication and collaboration. These platforms support online presentations, discussions, and group projects, allowing learners to develop digital communication skills that are increasingly relevant in modern workplaces. The widespread use of remote communication technologies has further highlighted the importance of public speaking skills in virtual environments. Although digital technologies offer numerous benefits, several challenges remain. Technical issues, limited access to digital resources, insufficient digital literacy, and reduced face-to-face interaction may affect learning outcomes. Some researchers argue that excessive reliance on technology can decrease opportunities for authentic interpersonal communication. Nevertheless, the advantages of digital technologies generally outweigh these limitations. Digital tools provide scalable, flexible, and personalized learning experiences that support continuous improvement. They also enable educators to monitor learner progress more effectively and implement data-driven instructional strategies. The growing availability of advanced technologies such as AI, VR, and adaptive learning systems presents significant opportunities for the future development of public speaking education. By combining technological innovation with sound pedagogical principles, educators can create engaging learning environments that foster communication competence and professional readiness.

Research Methodology

This study employs a qualitative and descriptive research approach to investigate the role of digital technologies in developing public speaking skills. The research focuses on identifying effective technological tools and teaching strategies that enhance learners' communication competence and presentation abilities. The findings of this study indicate that digital technologies play a significant role in the development of public speaking skills. The analysis revealed that online learning platforms, artificial intelligence-based speech assessment tools, and virtual communication environments provide learners with greater opportunities for practice, feedback, and self-improvement. One of the major advantages of digital technologies is the availability of immediate feedback. AI-powered applications help learners identify pronunciation errors, improve speech fluency, and enhance presentation delivery. As a result, students become more aware of their strengths and weaknesses and can make necessary

improvements more effectively. The study also found that video conferencing platforms and presentation software contribute to the development of communication competence by enabling learners to participate in virtual presentations and discussions. These tools increase confidence and reduce public speaking anxiety through regular practice in digital environments. Furthermore, digital technologies support independent learning and continuous skill development. Learners can record their speeches, review their performances, and track their progress over time. This process promotes self-reflection and encourages active participation in the learning process.

Conclusion

In conclusion, digital technologies have become effective tools for developing public speaking skills in modern educational environments. The findings of this study demonstrate that online learning platforms, artificial intelligence-based speech analysis tools, video conferencing systems, and virtual learning environments can significantly enhance learners' communication competence, presentation abilities, and self-confidence. These digital tools offer learners greater opportunities for continuous practice, personalized feedback, and self-assessment, leading to more effective communication outcomes. Despite certain challenges, such as technical limitations and unequal access to digital resources, the overall benefits of technology integration outweigh the difficulties. Future research may focus on examining the long-term impact of emerging technologies, such as artificial intelligence and virtual reality, on communication skills development and public speaking education.

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