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THE ROLE OF TECHNOLOGY IN LEARNING GRAMMAR

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Annotatsiya (O'zbek tilida)

Ushbu ilmiy maqolada grammatika o'rganish jarayonida zamonaviy texnologiyalarning pedagogik va lingvistik ahamiyati tahlil qilinadi. Tadqiqot davomida raqamli platformalar, mobil ilovalar, sun'iy intellektga asoslangan ta'lim vositalari hamda interaktiv metodlarning grammatika ko'nikmalarini rivojlantirishdagi samaradorligi ilmiy jihatdan asoslab beriladi. Shuningdek, texnologiyalarning talabalar motivatsiyasi, mustaqil ta'lim ko'nikmalari va kommunikativ kompetensiyani shakllantirishdagi o'rne qiyosiy tahlil qilinadi.

Kalit so'zlar: texnologiya, grammatika, raqamli ta'lim, interaktiv metodlar, sun'iy intellekt, kommunikativ kompetensiya, mustaqil ta'lim.

Аннотация (Русский язык)

В данной научной статье анализируется педагогическое и лингвистическое значение современных технологий в процессе изучения грамматики. Особое внимание уделяется эффективности цифровых платформ, мобильных приложений, искусственного интеллекта и интерактивных методов в развитии грамматических навыков студентов. Также рассматривается влияние технологий на мотивацию обучающихся, самостоятельное обучение и формирование коммуникативной компетенции.

Ключевые слова: технология, грамматика, цифровое образование, интерактивные методы, искусственный интеллект, коммуникативная компетенция, самостоятельное обучение.

Abstract (English)

This scientific article examines the pedagogical and linguistic significance of modern technologies in grammar learning. The study highlights the effectiveness of digital platforms, mobile applications, artificial intelligence tools, and

interactive methodologies in developing grammatical competence among students. Furthermore, the paper comparatively analyzes the impact of technology on learner motivation, autonomous learning, and communicative competence in foreign language education.

Keywords: technology, grammar learning, digital education, interactive methods, artificial intelligence, communicative competence, autonomous learning.

Introduction

In the twenty-first century, technological development has transformed every sphere of human life, including education. Modern educational systems increasingly integrate digital technologies into teaching and learning processes in order to improve academic effectiveness and learner engagement [1]. In foreign language education, technology has become an essential instrument for developing grammar competence, communicative skills, and learner autonomy.

Traditional grammar instruction often relied on memorization and repetitive exercises, which sometimes reduced learner motivation and participation. Contemporary educational technologies, however, provide interactive, learner-centered, and communicative approaches that significantly improve students' grammatical understanding and practical language use [2]. Therefore, investigating the role of technology in grammar learning remains highly relevant in modern pedagogy and applied linguistics.

Main Part / Analysis

Technology has fundamentally changed the methods of teaching and learning grammar. Digital educational platforms such as Moodle, Google Classroom, Quizlet, and Kahoot provide students with interactive grammar exercises, immediate feedback, and personalized learning opportunities [3]. These tools increase learner engagement and encourage active participation in educational activities.

One of the most important technological innovations in grammar learning is the use of artificial intelligence and adaptive learning systems. AI-powered applications analyze students' grammatical errors and provide individualized recommendations for improvement. Such technologies support autonomous learning and allow students to practice grammar outside the classroom environment [4].

Mobile learning applications also contribute significantly to grammar acquisition. Applications such as Duolingo, Grammarly, and BBC Learning English enable

students to improve grammatical competence through interactive exercises, gamification, and authentic language examples. Comparative pedagogical studies indicate that students using digital grammar applications often demonstrate higher motivation and stronger retention of grammatical structures than learners using only traditional textbooks [5].

Another important aspect concerns communicative competence. Technology-based grammar instruction allows students to apply grammatical structures in realistic communicative contexts. Multimedia resources, online discussions, video conferencing, and collaborative projects promote communicative interaction and contextualized grammar usage. Such approaches help students understand grammar not only as a theoretical system but also as a practical communication tool [6].

From a pedagogical perspective, technology encourages learner-centered education and independent learning strategies. Students can access educational materials at any time and practice grammar according to their individual learning pace. This flexibility is particularly beneficial for beginner and intermediate learners who require repeated exposure to grammatical structures.

However, despite the numerous advantages of educational technologies, several challenges remain. Excessive dependence on technology may reduce face-to-face communication and critical thinking abilities. Furthermore, unequal access to digital devices and internet resources creates educational inequality in certain regions [7]. Consequently, teachers should combine technological tools with traditional pedagogical methods to achieve balanced and effective instruction.

Technology also influences teachers' professional roles. Modern educators are expected not only to explain grammar rules but also to organize digital learning environments, select appropriate educational resources, and guide students toward effective independent learning. Therefore, professional digital competence has become an essential requirement for contemporary language teachers.

Conclusion

In conclusion, technology plays a significant role in modern grammar learning by improving learner motivation, grammatical competence, communicative interaction, and autonomous learning opportunities. Digital platforms, mobile applications, and artificial intelligence tools provide innovative and effective methods for teaching grammar in contemporary educational environments.

The practical significance of this research lies in its pedagogical recommendations for integrating technology into grammar instruction. Educational institutions and teachers should combine innovative digital methodologies with communicative teaching approaches in order to improve students' academic achievement and language competence. Consequently, technology-enhanced grammar learning remains one of the most important directions in modern foreign language education.

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