

## СЕКЦІЯ XVII. ПЕДАГОГІКА ТА ОСВІТА

### EFFECTIVENESS OF ARTIFICIAL INTELLIGENCE IN COMPARISON WITH TRADITIONAL FOREIGN LANGUAGE TEACHING METHODS

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In the ever-evolving field of education, technology has become an indispensable tool for both teachers and learners. One area where technology, in particular artificial intelligence (AI), has had a significant impact is in the teaching and learning of foreign languages. It is important to note the effectiveness of artificial intelligence compared to traditional methods of teaching foreign languages.

Artificial intelligence, capable of processing and analyzing vast amounts of data, has led to a new generation of tools for foreign language learning. These tools range from language learning apps to chatbots and virtual language tutors. Here are some of the major ways in which artificial intelligence is transforming language education:

**Personalized learning:** AI-driven platforms can tailor lessons to the learner's individual needs. Through constant assessment, these systems adapt to the learner's pace, strengths and weaknesses, providing a personalized approach to learning.

**Immediate Feedback:** Traditional language learning often lacks real-time feedback. Conversely, AI provides instant correction and guidance, allowing learners to correct mistakes as they occur.

**Enhanced Engagement:** Gamification elements and interactive features in AI language learning apps make the process more engaging and enjoyable, encouraging regular practice. "Gamification reinforces important educational skills like problem-solving, collaboration, and communication" [3].

**Accessibility:** AI language learning tools are available 24/7, allowing learners to study at their convenience. This flexibility can be particularly beneficial for busy university students.

**Big Data Analysis:** AI systems can analyze learner data to identify patterns and areas where students commonly struggle. This information can be used to improve course materials and teaching methods.

Traditional methods of teaching foreign languages often rely on in-person instruction, textbooks, and rote memorization. While these methods have been effective for generations, they come with certain limitations:

**One-Size-Fits-All:** Traditional classroom settings often follow a standardized curriculum, which may not cater to individual learning styles and paces.

**Limited Immersion:** Full language immersion can be challenging to achieve in a classroom setting. This is where AI language learning apps can offer a more immersive experience.

**Lack of Real-Time Feedback:** Traditional classrooms may not provide immediate correction and feedback, leaving students unaware of their mistakes until much later.

**Resource Constraints:** Effective language teaching can require extensive resources, such as native-speaking instructors and language labs. AI can help bridge this resource gap.

The effectiveness of AI in language learning is a topic of ongoing research. Some studies indicate that AI-powered language learning tools can be as effective as traditional methods, if not more so, for specific aspects of language acquisition. “AI has the potential to transform the functioning of the education system, increase the competitiveness of institutions and empower teachers and students at all levels” [1]. However, it’s important to note that AI is not a complete replacement for human instructors. A balanced approach that combines the strengths of both AI and traditional teaching methods may be the most effective. Speaking of teachers, it should be noted that “AI can complement rather than replace them” [2].

In conclusion, AI has revolutionized the way foreign languages are taught and learned. The effectiveness of AI in comparison with traditional methods depends on various factors, including the individual’s learning style and the specific language skills being developed. AI offers personalized, interactive, and accessible language learning experiences, which can significantly benefit university students seeking to master foreign languages. However, the integration of AI should be part of a broader educational strategy that values the unique contributions of both technology and human instruction. The future of foreign language education is likely to be a harmonious blend of AI and traditional teaching methods, offering students the best of both worlds.

### References:

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