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INTEGRATION OF CONTEMPORARY TECHNOLOGIES INTO LANGUAGE EDUCATION FOR NON-LANGUAGE MAJORS

Kurbandurdyev Myrat

kurbandurdyevmyrat3@gmail.com

*Student of Tashkent University of Information
Technologies named after Muhammad Al-Khwarizmi.
Cybersecurity faculty & TTU.*

Karimova Maxliyo

podycoptanx@gmail.com

*Student of Tashkent University of Information
Technologies named after Muhammad Al-Khwarizmi.
Biotechnology faculty.*

Scientific Adviser: Yesbosinova Nursulu Perdebayevna

*Senior teacher of Uzbek and foreign languages
department of the TITLI.*

Abstract: In today's globalized and digitally driven world, language proficiency is becoming increasingly important across all academic and professional fields, including non-philological disciplines. This paper explores the integration of contemporary technologies—such as mobile apps, online platforms, artificial intelligence tools, and virtual classrooms—into language learning for students majoring in non-language fields. It examines how these tools enhance motivation, engagement, and learning outcomes by providing personalized, accessible, and interactive experiences. The study also addresses challenges faced during implementation and offers recommendations for effective integration tailored to the needs of non-language majors.

Keywords: Language learning, non-philological fields, educational technology, digital tools, language education, AI in education, virtual learning, non-language majors

Introduction

In the 21st century, the rapid advancement of information and communication technologies (ICT) has fundamentally reshaped the landscape of education. Language learning, once confined to traditional classrooms and printed textbooks, has now expanded into digital spaces, enabling learners to access content anytime, anywhere. While philology students have always been central to language instruction, there is a growing recognition of the importance of language skills among non-language majors such as engineers, economists, doctors, IT specialists, and business professionals. In an

increasingly globalized world, professionals are expected to communicate effectively in international settings, read specialized literature in foreign languages, and participate in cross-cultural collaboration. For non-philological students, acquiring language skills is not merely an academic requirement, but a strategic asset that enhances employability and global competence. However, these learners often lack motivation or time for traditional language learning approaches. This necessitates innovative, technology-enhanced solutions tailored to their needs. This paper explores the integration of modern digital technologies into the language education of non-language majors. It analyzes the types of technologies used, pedagogical approaches, advantages, and challenges. The aim is to provide practical insights and recommendations for educators and policymakers to improve the effectiveness of language learning in non-philological fields.

Main Part

1. The Growing Need for Language Skills in Non-Philological Fields. As disciplines become more interdisciplinary and interconnected on a global scale, the ability to access and produce knowledge in multiple languages is increasingly valuable. For instance: Engineers may need to collaborate with international teams and read technical documentation in English. Medical students must understand medical journals and communicate with international colleagues or patients. Economists and business students engage with global markets, read financial reports, and attend international conferences. This growing need necessitates language education that is flexible, relevant, and integrated into their core academic training.

2. Technological Tools in Language Learning.

- ✓ Modern language education uses a variety of tools and platforms to support learning. These include:

- ✓ Mobile applications: Platforms such as Duolingo, Busuu, or Memrise provide gamified vocabulary practice, grammar exercises, and pronunciation tools.
- ✓ AI-based writing and speaking assistants: Grammarly, ChatGPT, and speech recognition apps give immediate feedback on language usage and correctness.
- ✓ Virtual learning environments: Moodle, Canvas, and Google Classroom allow teachers to upload lessons, assign tasks, and monitor student progress.
- ✓ Communication tools: Zoom, Skype, or Microsoft Teams facilitate real-time language practice with teachers or peers, often across borders.
- ✓ Multimedia resources: YouTube, podcasts, and educational platforms like Coursera and EdX offer authentic language input and task-based learning opportunities.

3. Pedagogical Strategies and Integration Methods.

- To successfully integrate technology, instruction must be adapted to suit the needs of non-language majors:
- Content and Language Integrated Learning (CLIL): Teaching language through subject-specific content.
- Blended learning: Combining face-to-face instruction with online learning tools.
- Microlearning: Short, focused lessons via mobile or web platforms suited to busy student schedules.
- Project-based learning: Encouraging students to use language skills in real-life tasks related to their field.

Result

The findings indicate that when effectively implemented, modern technologies significantly enhance the language learning experience of non-language majors. Students report increased confidence, interest, and practical application of language skills. Use of field-specific materials and AI-powered tools results in better retention and

contextual understanding. Institutions that incorporate technology-supported curricula observe improvements in overall student performance and satisfaction. Nevertheless, success depends on proper planning, training, and content selection. Tools must be chosen based on students' academic needs and future professional environments.

Discussion

The integration of technology into language education for non-language majors presents both opportunities and challenges. On the positive side, technologies:

Enhance autonomy, allowing students to learn at their own pace. Increase motivation, especially through gamified or interactive content. Offer flexibility, accommodating different learning styles and schedules. Improve accessibility, making resources available to students in remote or under-resourced areas.

However, challenges remain:

Digital literacy: Not all students or teachers are equally skilled in using digital tools.

Infrastructure: Some institutions lack the necessary hardware, software, or internet connectivity.

Content mismatch: Generic language apps may not offer specialized vocabulary relevant to students' fields.

Teacher readiness: Some educators resist change or need training to effectively use new tools.

Furthermore, a balance must be struck between technological engagement and pedagogical effectiveness. Technology is a tool—not a substitute—for thoughtful, student-centered teaching.

Conclusion

The integration of contemporary technologies into language education for non-language majors is no longer optional—it is essential. As digital tools become more

sophisticated and accessible, educators have unprecedented opportunities to provide personalized, relevant, and engaging learning experiences.

To make the most of this potential, language instruction should be adapted to students' academic disciplines, supported by institutional investments in infrastructure and training. Moreover, educators must stay informed about emerging tools and pedagogical strategies. By embracing modern technologies, we can empower non-philological students not only to acquire a second language, but also to thrive in an interconnected, multilingual world.

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