

Electronic and Methodological Support for The Development of Students' English Communicative Competence

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ABSTRACT

The rapid development of digital technologies has significantly transformed the educational process and created new opportunities for foreign language instruction. This article explores the role of electronic and methodological support in the development of students' English communicative competence. The study emphasizes the integration of digital learning resources, interactive platforms, multimedia materials, and innovative teaching methods to enhance students' language skills. Particular attention is paid to the formation of communicative competence through technology-assisted learning environments that promote speaking, listening, reading, and writing skills. The article analyzes the pedagogical potential of electronic educational resources and proposes methodological approaches for their effective implementation in English language teaching. The findings indicate that well-designed electronic and methodological support contributes to increased learner motivation, autonomous learning, and improved communicative performance. The study highlights the importance of combining modern educational technologies with communicative language teaching principles to achieve better learning outcomes.

Keywords: English language teaching, communicative competence, electronic and methodological support, digital technologies, language learning, educational resources, communicative approach, e-learning, interactive learning, autonomous learning.

INTRODUCTION

The process of organizing education in an effective and interactive way using modern digital devices and software is digital technology, which improves the quality of education by facilitating the process of acquiring and learning knowledge for students and teachers and providing an individual approach. The main types of digital technologies in the educational process include multimedia tools, online learning platforms, mobile applications, artificial intelligence tools, electronic journals and diaries, video lessons, and webinars. Digital technologies are an important factor in improving the quality of education, increasing the interest of learners in acquiring knowledge, and organizing the educational process in accordance with the requirements of the time.

The issue of preparing communicative competence specialists for professional activities who can meet today's

innovative requirements is one of the main tasks of

higher educational institutions, and the fact that the existing educational and methodological and material and technical base in the processes of carrying out research work does not fully meet today's innovative requirements is explained by the use of software educational tools based on.

Digital technology-based software educational tools allow future teachers of the subject "Technology" to access electronic information resources in preparing for professional activities, which in turn serves to develop their independent work skills. Software tools based on digital technologies stimulate the development of students' communicative competencies in English, providing them with ample opportunities for acquiring new knowledge and improving the quality of education by using modern

technologies in the learning process.

Cooking is one of the main content of the subjects taught in the direction of technological education, cooking is considered a necessary and integral part of human life, reflecting the culture, traditions and everyday way of life of each nation. Every dish not only satisfies the need for food, but also represents the historical and cultural heritage of the people. Therefore, it is important to properly understand and effectively use the field of cooking, and the technological educational direction “Food preparation technology” in the curriculum, “Methodology for teaching processing and food products”, “Service operations”, a tutorial entitled “Dictionary of cooking technology”, developed within the framework of the content of the sciences, summarizes the terms, phrases and concepts used in the field of cooking, it is designed to serve as a theoretical and practical auxiliary resource for special science teachers and students of professional education and teachers of “Technology” of general secondary education schools and employees of students and tourism centers and catering facilities serving foreign guests, chefs, technologists and those interested in this field.

The main purpose of the dictionary of culinary technology is to highlight words and concepts related to the theoretical and practical aspects of cooking in Uzbek – English and English-Uzbek, and a convenient and simple source of knowledge for professionals, students and those interested in culinary arts, in which terms related to culinary processes, types of raw materials, special equipment, cooking techniques and recipes are clearly and detailed.

The textbook “Dictionary of Culinary Technology” is a methodological guide for everyone who wants to improve their knowledge and skills in the field of cooking, and is mainly intended for students of the specialty 60112300 - The direction of technological education takes into account the scientific and methodological significance of the development of communicative competencies of future teachers of technology in English, relying on the theoretical foundations of the development of communicative competencies in English regarding the professional activities of students, the didactic possibilities

of developing communicative competencies in English, on the methodology of preparing students for innovative professional activities through the development of communicative competencies in English, improving the model for the development of communicative competencies of students in English, improving the methodology for the development of communicative competencies of students in English on the basis of innovative lesson assistance in the development of communicative competencies of students in.

Sewing is also one of the main subjects taught in the Technological Education program, and the textbook “Dictionary of Sewing Technology” is used in the 60112300 – Based on the improvement of the methodology for the development of communicative competencies of students in English on the subject of technological education “Construction and design of sewing objects”, the specialty of processing of fabrics, material science of fabrics, the technology of making objects from gauze materials, the technology of learning to weave manually, and developed taking into account the innovative requirements of, special science teachers and students of professional education and teachers of “Technology” of general secondary schools and employees of tourism centers serving students and foreign visitors can also use.

The purpose of developing a tutorial called “Dictionary of sewing technology” is to collect the basic terms necessary for professionals, students, students and practitioners working in the field of sewing technology and apply them in their meanings, annotations and practice. The textbook contains words and expressions that cover various aspects of sewing technology, which will help make communication in the sewing industry more precise and understandable.

It is taken into account that the correct understanding and application of concepts and terms related to sewing technology not only ensures that professional work activities are effective, but also provides a more thorough understanding of scientific and technical innovations in this area and practical assistance to each user to assimilate knowledge about sewing technology in English.

Technological and functional advantages of electronic mobile dictionary applications

№	Advantages of the electronic mobile dictionary application	Comments on the advantages of the electronic mobile dictionary application
1	Availability of quick search	The user can find a word or phrase in a few seconds, which saves time.

2	Pronunciation function availability	Many applications (e.g. Google Translate, Oxford Dictionary, Lingvo) provide the correct pronunciation of a word in audio form.
3	Offline operation	Many dictionaries can work even without the Internet, making the user independent of the network.
4	Integration of technical terms with multimedia tools	The meaning of a word is better retained in memory through images, examples, audio and video materials.
5	Availability of AI-based recommendations	Some applications (e.g. Reverso Context or WordUp) recommend new words based on the user's learning level.

In today's globalized and information age, language learning has become an integral part of human activity. In learning foreign languages, dictionaries play a key role as a basic learning tool. As a result of technological progress in recent years, traditional paper dictionaries have been replaced by electronic mobile dictionary applications. Such applications allow the user to quickly find the meaning of a word, listen to pronunciation, learn translation and context. Electronic mobile dictionaries not only provide convenience, but also make the learning process interactive, effective, and personalized. The technological and functional advantages of electronic mobile dictionary applications are listed below.

The technological and functional advantages of electronic mobile dictionary applications, as explained above, make them convenient and educationally effective.

Electronic mobile dictionary applications are becoming an important effective didactic tool in the modern educational

process, increasing students' independence in language learning, individualizing learning activities, and directing them to active knowledge acquisition. Electronic mobile dictionaries provide the user with the meaning, pronunciation, translation, and contextual use of a word quickly, creating an active learning environment. From a pedagogical perspective, such applications are based on the principles of interactive learning, where the user reinforces knowledge through tests, exercises, and game elements. Also, electronic mobile dictionaries conform to modern educational theories such as constructivism and connectivism, encouraging the student to build knowledge and learn through the network based on their experience.

As a result, electronic mobile dictionary applications have important pedagogical value in expanding students' English vocabulary, correcting pronunciation, developing speaking skills, and strengthening their intrinsic motivation to learn. Electronic mobile dictionaries radically change the methodology of language learning. Their main pedagogical advantages are explained below.

Pedagogical advantages of the electronic mobile dictionary application

№	Pedagogical advantages of the electronic mobile dictionary application	Comments on the pedagogical advantages of the electronic mobile dictionary application
1	Availability of independent learning opportunities	The user can use it independently even outside of class time.
2	Active learning environment	Vocabulary apps increase student engagement through interactive exercises, tests, and games.

3	Contextual learning	Some apps show words in real sentences, articles, or video subtitles, making them easier to remember.
4	Individual approach	The application adapts to the user’s language level, ensuring the principle of “Personalized learning”.
5	Multilingualism (English–Russian–Uzbek translations)	Allows you to learn several languages at the same time (for example, English–Russian–Uzbek translations).

The electronic dictionaries described above, as a didactic tool, involve the learner in active learning.

Electronic mobile dictionary applications have a positive impact on students’ psychological state and motivation to learn English in the process of language learning. They organize learning activities in an easy, interactive, and personalized way, increasing intrinsic motivation to learn. Gamification elements (points, levels, rewards) used in applications encourage students to actively participate in a competitive environment and instill a sense of achievement.

Psychologically, electronic mobile dictionaries give students a sense of independence, freedom, and control. The user learns at his own pace, observes his results and, while evaluating his achievements, develops metacognitive skills, ensuring that multimedia tools (audio, video, visual images) activate various sensory channels of the brain, effectively storing words in long-term memory. The process of learning a language can often be tedious and time-consuming. The psychological and motivational benefits of electronic mobile dictionaries for learning English are explained below.

Psychological and motivational advantages of electronic mobile dictionaries for learning English

№	Advantages of the electronic mobile dictionary application	Comments on the advantages of the electronic mobile dictionary application
1	Gamification elements	Collecting points, levels, and rewards motivate the student.
2	Fun interface and user-friendly design	Make learning English enjoyable.
3	User can track their progress	Word statistics and mastery levels reinforce motivation to learn the language.

Psychologists say that interactive and collaborative language learning methods activate long-term memory.

Electronic mobile dictionary applications are important in the process of language learning not only for individual, but also for Social Development. They expand intercultural communication between users, forming feedback and international communication skills in different languages. This process ensures the social integration and adaptation of the individual to the global information space. In addition, some electronic dictionary applications support online forums and online learning groups. This reinforces the principles of collaborative learning, sharing

experiences, and mutual support among users. As a result, electronic mobile dictionaries strengthen social ties and enrich the communicative and interactive nature of the educational process.

Electronic mobile dictionary applications are effectively integrated into the modern educational process and, as an innovative pedagogical tool, improve the quality of the educational process. Their use makes the teaching process interactive, individual and flexible. Through electronic mobile dictionaries, students can independently learn new words, listen to the pronunciation of the intended word, and master its use in context, which contributes to the development of language competencies. The inclusion of

such applications in the learning process is fully compatible with blended learning (mixed learning) and mobile learning (mobile learning) technologies. As a result, time is saved and a digital collaborative environment is formed between the student and the teacher. Electronic mobile dictionary applications play an important role in improving efficiency and ensuring the continuity of education based on the digitalization of the learning process.

Electronic mobile dictionary applications make the language learning process fast, convenient, and effective, encouraging the user to study independently and actively. This improves pronunciation, context, and memorization quality for language learners. It serves as an innovative educational tool for teachers and contributes to the digital transformation of education. Electronic mobile dictionaries are not only a technological convenience, but also a pedagogical innovation that forms a new paradigm of language learning.

Systematic analyses conducted during the study showed that 60112300 – Considering in technical terms the subjects “Technical mechanics”, “Technical creativity and construction”, “Metal and non-metalwork processing technology” and “Fundamentals of robotics” from the compulsory subjects related to the specialty listed in the catalog table of subjects in the qualification requirements of the direction of technological education, the technique in the professional activities of future teachers of technology is important in the development, it was theoretically substantiated that it is advisable to effectively organize classes in these subjects, develop students’ ability to speak English through creative thinking, and widely use electronic mobile dictionaries to familiarize themselves with modern technological approaches.

Digital learning resources, particularly electronic mobile applications, interactive learning tools, and virtual simulation environments, enable students to develop technological thinking, digital literacy, engineering didactics, and professional competencies based on visual perception. This, in turn, increases the didactic effectiveness of the educational process and provides a scientific and methodological basis for the deep assimilation of basic theoretical knowledge necessary for practical activities. Also, an operational update of educational content through e-mobile applications will provide students with the opportunity to work with actual and problematic topics and improve the mechanism of

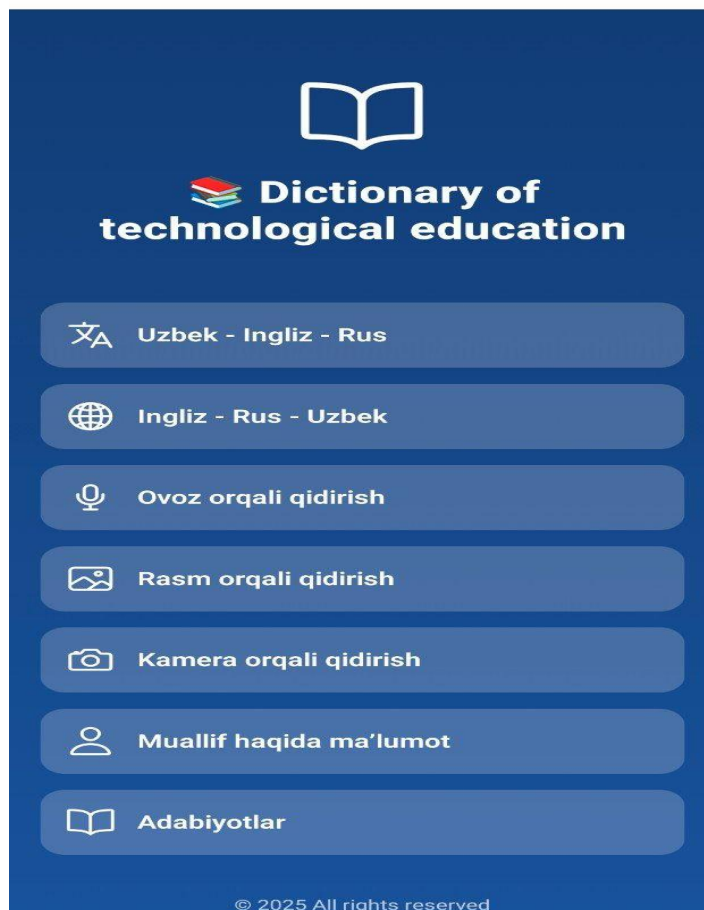
development and use of electronic mobile applications based on digital technologies from the disciplines of “Technical mechanics”, “Technical creativity and construction”, “Metal and non-metallic object processing technology”, “Fundamentals of robotics”, expanding them. It can be effective in creating opportunities for them to deepen their knowledge of English for professional activities and in the process of training highly qualified specialists in this field.

Educational resources based on digital technologies, in particular electronic textbooks and mobile applications, allow traditional educational literature to organize the educational process in a more functional, interactive, and comprehensive manner. The main advantage of such digital tools lies in their interactivity, which helps students increase cognitive activity through visual, auditory, and video content in order to deeply understand each topic. The electronic dictionary “Dictionary of Technological Education” is intended for students of the 60112300 - The technological education direction is designed for students and is designed in accordance with the educational plan and science programs of the educational direction and consists in the content of the compulsory subjects “Technical mechanics”, “Technical creativity and construction”, “Technology for processing metal and non-metal objects”, “Fundamentals of robotics” and the organization of classes in these subjects in English and teaching English terms, knowledge of the content of lexical units, professional terms and knowledge of science, as well as the ability to teach and visualize students during the educational practice and work process, each student has the skills to be able to conduct practical classes integrated with the English language in the course of classes, effective methods of teaching classes, organization and conducting on the basis of pedagogical, It is an important scientific and methodological resource that serves to strengthen the connection between theory and practice and increase the effectiveness of the educational process. This dictionary is considered one of the important steps towards the development, coordination and standardization of technical terms in the Uzbek language.

The electronic dictionary “Dictionary of Technological Education” can be used by professors, teachers, researchers, and students studying in technical fields. At the same time, it serves to standardize Uzbek-language terms in technological fields and create a unified scientific and methodological base.

The dictionary will be of great help to users seeking to master modern pedagogical technologies in consolidating theoretical knowledge, correctly interpreting technical and professional terms, as well as in a deeper understanding of

scientific literature in English. It is also available in electronic form, which makes it interactive, convenient, and fast to use.



Home screen of the mobile application “Dictionary of Technological Education”

In the main window of the electronic dictionary “Dictionary of technical education”, the following content is user-friendly.

In the modular part of the e-mobile dictionary, the Uzbek-English-Russian, English-Russian-Uzbek sections were compiled in accordance with the content of specialist subjects, each word and vocabulary was interconnected, and the fact that they were based on the principles of sequence and continuity allowed students to explain lexical units covering content in specialist subjects in the direction of technological education in a logical and Each component is provided with complementary information and is useful for completing practical tasks.

CONCLUSION

In conclusion, the effective development of students’ English communicative competence requires the integration of modern electronic and methodological support into the educational process. The use of digital technologies, interactive learning platforms, and multimedia resources creates favorable conditions for improving learners’ communicative skills and increasing their motivation to learn English. Electronic and methodological support not only facilitates the acquisition of language knowledge but also promotes independent learning, critical thinking, and active participation in communicative activities. Therefore, the systematic implementation of technology-enhanced teaching methods can significantly improve the quality of English language education and contribute to the formation of competent and

competitive specialists capable of effective communication in a globalized environment.

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