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The Role of Computer Technologies in the Process of Teaching English and the Impact of Modern Technologies

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Abstract

This article examines the role of computer technologies in the process of teaching English and their impact on the education system. Currently, information and computer technologies are widely used in education, contributing to improving the quality of teaching. Especially in teaching foreign languages, multimedia tools, Internet resources and interactive programs increase students' interest in knowledge and help them master the language effectively. The article analyzes the possibilities and advantages of teaching English through the use of computer technologies. It is also noted that modern technologies develop students' communicative skills and improve their ability to learn independently. The results of the study show that the correct and effective use of computer technologies in the educational process increases the effectiveness of teaching English.

Keywords: English, computer technologies, education, information technologies, interactive learning, Internet resources

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Introduction

Today, the education system in the world is undergoing major changes. The development of science and technology, the formation of an information society, and globalization processes have led to changes in the content and methods of education. The use of modern technologies, especially in teaching foreign languages, has become an important part of the educational process. Currently, English is widely used as the main language of international communication, science, technology, and culture. Therefore, high-quality teaching of English is one of the most important tasks of the education system.



In recent years, computer technologies have been actively introduced into the educational process. They enrich the content of education and create new pedagogical opportunities. Computers, multimedia programs, Internet resources, and electronic learning aids help organize the educational process more effectively. Such technologies provide students with quick and accessible access to information, increase their interest in education, and also provide a great opportunity to develop students' ability to work independently.

The famous teacher and scientist N.D. Galskova noted that the use of modern technologies in teaching foreign languages helps to develop students' communicative competence. In his opinion, computer technologies make the learning process interactive and increase students' interest in the lesson. Through such methods, students can actively use the language and comprehensively develop listening, speaking, reading, and writing skills.

The famous scientist E.I. Passov, who studied the methodology of teaching foreign languages, also emphasized the importance of practical application in language learning. According to him, in order to effectively learn a language, students should learn in conditions close to real communication. Computer technologies allow creating such conditions. For example, audio and video materials, interactive programs, and online platforms help students learn a language in conditions close to the natural environment.

The role of computer technologies is especially emphasized in modern pedagogical research. Teaching foreign languages with the help of computers is called CALL (Computer Assisted Language Learning). This concept was first widely used in scientific research in the 1980s. Researcher Michael Levy noted in his works that computer technologies modernize the language teaching process and develop students' independent learning. In his opinion, computer programs and Internet resources allow students to learn a language at their own pace and deepen their knowledge.

In addition, modern technologies allow for the widespread use of multimedia capabilities in education. Multimedia materials – a combination of text, images, audio and video – make it easier to understand educational materials. According to researchers, the use of such materials helps students to focus their attention and better perceive information. Multimedia technologies also make the learning process more interesting and dynamic.

The development of Internet technologies also plays a major role in teaching foreign languages. Through the Internet, students have the opportunity to communicate with people from different countries of the world and use English in practice. Online platforms, e-books, video lessons and mobile applications facilitate the language learning process, allowing it to be carried out at any time and anywhere. Such opportunities greatly help students to independently learn and master new knowledge.

The use of computer technologies in modern education is aimed at improving the quality of teaching. They develop students' information literacy, teach them to independently search for and analyze new knowledge. Technologies also allow for an individual approach to the learning process. Each student can learn at his own level and pace.

Thus, computer technologies and modern information resources have become an integral part of the process of teaching English. They help to effectively organize the learning process, increase student interest and improve the quality of education. Therefore, today the use of computer technologies in teaching English is one of the important directions of modernization of the education system.

The purpose of this study is to analyze the role of computer technologies in the process of teaching English and their impact on education. As well as to consider the possibilities of increasing the effectiveness of language teaching through the use of modern technologies.

Research Methods

Mixed methods research was used to study the role of computer technologies in the process of teaching English. The study was conducted among 1st-year students of the Institute of Philology and Intercultural Communication of Osh State University. The main goal of the study was to determine how computer technologies affect students' motivation, interest, and level of knowledge acquisition in learning English.

The study was attended by 30 1st-year students of the Institute of Philology and Intercultural Communication of Osh State University and 5 English teachers. The students were mainly aged 17–19 years.

Students participated in a survey and expressed their opinions on the use of computer technologies in learning English. Interviews were also conducted with some students and teachers. Teachers provided information about their experience of using technologies in English lessons, their advantages and disadvantages.

During the experimental study, students were divided into two groups:

- Experimental group - 15 students, who learned English through the use of computer technologies.
- Control group – 15 students who received education using traditional teaching methods.

This distribution allowed us to compare and analyze the effectiveness of computer technologies in teaching English.

Survey Method

As part of the study, a survey was conducted to determine students' attitudes towards the use of computer technologies in learning English. Students who participated in the survey were given a specially prepared questionnaire.

The questionnaire included the following questions:

- How often do you use computer technologies (laptops, smartphones, Internet platforms) when learning English?
- What digital tools are most helpful in learning English? (online dictionaries, language learning applications, videos, presentations)
- Does the use of computer technologies make English lessons more interesting and understandable?
- Which language skills are most developed when using technologies? (speaking, listening, reading, writing)
- Do you prefer lessons using technologies or traditional teaching methods?

Interview Method

During the study, interviews were conducted with English teachers and students. This method helped to obtain more in-depth information on the issue under study.

Questions for teachers:

- How do you use computer technologies in English lessons?
- What advantages do you notice in using multimedia tools?
- What difficulties do students encounter in using technologies?

Questions for students:

- How do computer technologies help you in learning English?
- What digital resources do you use most often to learn English?
- How do online tools affect the development of language skills?

Experimental Method

In the experimental group, computer technologies and digital learning tools were actively used in English lessons.

The following teaching methods were used during the experiment:

1. Multimedia presentations - pictures, videos and audio materials were used to explain new words and grammar.
2. Online learning platforms - students completed interactive exercises and online tests.
3. Video and audio materials – helped students develop listening and speaking skills.
4. Interactive digital tasks – knowledge was reinforced through online games, tests and assignments.
5. Independent learning through Internet resources – students used online dictionaries and educational websites.

The results of the experiment were analyzed and it was found that the use of computer technologies helps to increase the efficiency of the English language teaching process.

Results

The analysis of the results of the survey, interviews and experimental research showed that the use of computer technologies in the process of teaching English has a positive effect on students' motivation, activity and academic achievement. By comparing the results of the preliminary and final tests of the experimental and control groups, a number of important changes were identified.

1. Increased interest in learning by students

In the experimental group, it was observed that the use of computer technologies increased students' interest in the lesson. According to the survey results, 75% of students noted that the use of technologies makes English lessons more interesting and understandable. Video materials, multimedia presentations and interactive tasks helped students to actively participate in the lesson.

2. Increased motivation

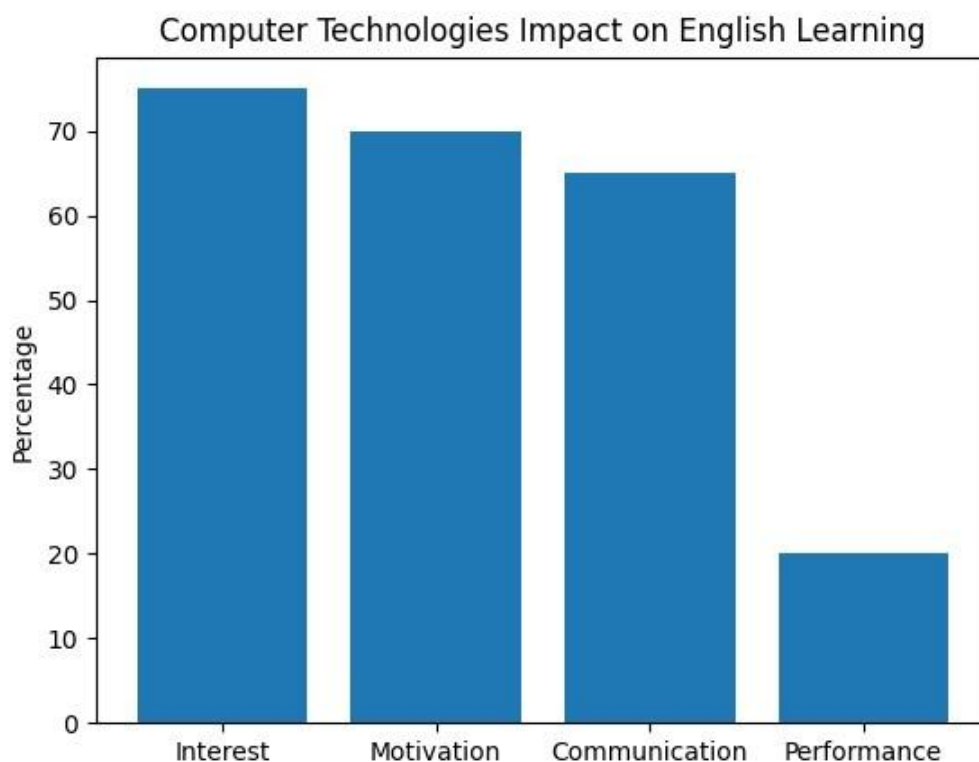
70% of the students surveyed said that computer technologies increased their motivation to learn English. Online platforms and digital resources allowed students to independently study the material and consolidate their knowledge.

3. Development of communication skills

Interactive tasks, online discussions and group work improved students' ability to communicate in English. 65% of students in the experimental group noted that their speaking and listening skills had improved. Video and audio materials helped students hear and practice correct pronunciation.

4. Increased academic performance

The results of the experimental study showed that students who used computer technologies scored 20% higher on English language tests than the control group. This indicates that the use of these technologies helps to better understand the learning material and effectively assimilate knowledge.



The results of the study showed that computer technologies play an important role in the process of teaching English. Modern technologies help students quickly find information, perform interactive tasks, and develop language skills.

The use of computer technologies makes the learning process interactive and dynamic. Multimedia materials, online platforms, and digital resources increase students' cognitive activity and facilitate their active participation in the learning process.

The use of technologies in the learning process develops students' ability to learn independently. Internet resources, online dictionaries, and educational platforms allow students to search for new information and expand their knowledge.

Technologies also help create a positive emotional atmosphere in the learning process. Interactive games, video lessons, and online tasks increase students' interest and make the lesson interesting. This, in turn, increases students' motivation to learn.

The results of the study show that the use of computer technologies increases the effectiveness of the English language teaching process. Technologies help students develop language skills, increase motivation, and improve the quality of their learning.

Discussion

In conclusion, the emotional component of the learning process should be considered not just as an additional factor, but as an integral and influential element of education. It affects not only the student's academic achievements, but also his self-esteem, level of goalorientedness, personal identity and other psychological phenomena (Goleman, 1995). Therefore, it is of particular importance to ensure the right balance between emotional and cognitive processes in education.

In English lessons, it is necessary to create a safe and supportive atmosphere in which students can openly express their emotions. An effective way to achieve this goal is through games and role-playing activities. Students play different roles and show different emotions, which develops empathy and the ability to understand the emotional state of other people (Salovey & Mayer, 1990).

Also, the introduction of emotionally rich texts and audio-visual materials into the lesson stimulates students' emotional reactions and develops their analytical and interpretive skills. Students can discuss the material, express their opinions, and justify their arguments (Sagimbayev et al., 2024; Kochkonbaeva et al., 2025).

An important component of the development of emotional intelligence is the acquisition of vocabulary related to emotions. Students need to learn words that accurately describe their own emotions, as well as phrases that help them understand the emotional state of others. The lesson provides an opportunity to organize discussions on various topics and use this vocabulary in a practical communicative context (MacCann et al., 2020).

The use of computer technologies also provides a great opportunity to add an emotional component to the learning process. Multimedia videos, interactive tasks, and online games can activate students emotionally, contribute to active participation in the lesson, and increase motivation.

The integration of emotional and cognitive processes improves a student's independent thinking, creativity, and problem-solving skills. Cognitive activity helps to regulate emotional states, while positive emotions add value to the learning process and stimulate effective actions (Pekrun et al., 2017). Negative emotions can reduce a student's self-management skills and often require external help from a teacher or parent.

Conclusion

In the context of modern education, students are required to think independently, creatively, and critically, and to use modern technologies to solve problems. This learning process requires self-development and self-esteem (Filice & Weese, 2024).

However, cognitive activity is impossible without emotional support. Emotional insensitivity, or “emotional deafness,” hinders problem-solving and makes productive communication difficult. For example, without emotional support during group decision-making, students often do not participate.

In recent years, in the theory and methodology of foreign language teaching, attention has been paid to the emotional development of students, along with their cognitive development. English lessons, especially at the elementary level, provide an ideal environment for integrating the emotional component into the learning process. The introduction of emotional elements increases the effectiveness and relevance of language acquisition (Bänziger, 2014).

Emotional intelligence must be integrated with other knowledge, skills, and abilities. Combining emotional and intellectual domains in education prepares students for the challenges of modern life. Each student's path to developing emotional intelligence should be tailored to their individual goals and needs.

Emotional and interactive methods supported by computer technology also help develop leadership and social skills. The full development of emotional intelligence requires time, effort, and concentration, but its benefits are long-term and have a positive impact on the overall quality of life of students.

Thus, strengthening the emotional component in English lessons and integrating computer technology will lead to increased student motivation, participation, and academic achievement. These actions will make the educational process deeper and more effective.

References

1. Баргыбай Кызы, Б. Методические основы использования искусственного интеллекта на уроках информатики в STEM-среде / Б. Баргыбай Кызы, А. Авазбек Кызы // Открытый журнал евразийских исследований. – 2025. – № 4. – С. 58-68. – DOI 10.65469/eijournal.2025.4.6. – EDN JUBUAB.
2. Марзабаева, Б. Т. Сотрудничество Кыргызской Республики и Европейского Союза в области образования / Б. Т. Марзабаева, А. Маматова // Открытый журнал евразийских исследований. – 2025. – № 4. – С. 30-38. – DOI 10.65469/eijournal.2025.4.3. – EDN PDDZXT.
3. Goleman, D. (1995). *Emotional Intelligence: Why It Can Matter More Than IQ*. New York: Bantam Books. – pp. 34–45 (emotional intelligence, motivation in learning).
4. Salovey, P., & Mayer, J. D. (1990). Emotional intelligence. *Imagination, Cognition and Personality*, 9(3), 185–211. – pp. 189–193 (concept of emotional intelligence, emotional skills).
5. MacCann, C., Jiang, Y., Brown, L. E., Double, K. S., Bucich, M., & Minbashian, A. (2020). Emotional intelligence predicts academic performance. *Psychological Bulletin*, 146(2), 150–186. – pp. 160–165 (emotional intelligence and academic success).
6. Pekrun, R., Lichtenfeld, S., Marsh, H. W., Murayama, K., & Goetz, T. (2017). Achievement emotions and academic performance. *Journal of Educational Psychology*, 109(5), 867–888. – pp. 870–875 (achievement emotions in education).
7. Filice, L., & Weese, W. J. (2024). Developing emotional intelligence. *Encyclopedia*, 4(1), 583–599. – pp. 585–590 (development of emotional intelligence in education).

8. Bänziger, T. (2014). Measuring emotion recognition ability. In A. C. Michalos (Ed.), *Encyclopedia of Quality of Life and Well-Being Research* (pp. 3934–3941). Dordrecht: Springer. – pp. 3935–3937 (emotion recognition ability).
9. Galskova, N. D. (2004). *Modern Methods of Teaching Foreign Languages*. Moscow: ARKTI. – pp. 52–60 (communicative competence, use of modern technologies in language teaching).
10. Passov, E. I. (2000). *Communicative Method of Teaching Foreign Languages*. Moscow: Prosveshcheniye. – pp. 40–48 (communicative approach, real communication in language learning).
11. Levy, M. (1997). *Computer-Assisted Language Learning: Context and Conceptualization*. Oxford: Oxford University Press. – pp. 1–15 (CALL – computer-assisted language learning, use of computer technologies in language teaching).
12. Kochkonbaeva, S., Tynybekova, C., Saidrahimova, D. (2025). Efficiency And Features Of The Use Of Multimedia Technologies In The Process Of Teaching A Foreign Language In Specialized Universities In Kyrgyzstan // *Bulletin of Osh State University*. – 2025. №2. Pp. 94–108. https://doi.org/10.52754/16948610_2025_2_9
13. Sagimbayeva , J., Musabaeva , G., Tazhitova , G., & Mamrasulova , A. (2024). Use Of Learning Apps In Teaching English At Universities // *Bulletin of Osh State University*. – 2024. №2. Pp. 336–344. https://doi.org/10.52754/16948610_2024_2_33

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Англис тилин үйрөтүү процессинде компьютердик технологиялардын ролу жана заманбап технологиялардын таасири

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Аннотация

Бул макалада англис тилин үйрөтүү процессинде компьютердик технологиялардын ролу жана алардын билим берүү системасына тийгизген таасири каралат. Азыркы мезгилде маалыматтык жана компьютердик технологиялар билим берүү тармагында кеңири колдонулуп, окутуунун сапатын жогорулатууга өбөлгө түзүүдө. Айрыкча чет тилдерди окутууда мультимедиялык каражаттар, интернет ресурстары жана интерактивдүү программалар студенттердин билимге болгон кызыгуусун арттырып, тилди натыйжалуу өздөштүрүүгө жардам берет. Макалада компьютердик технологияларды колдонуу аркылуу англис тилин үйрөтүүнүн мүмкүнчүлүктөрү жана артыкчылыктары талданат. Ошондой эле заманбап технологиялар студенттердин коммуникативдик көндүмдөрүн өнүктүрүп, өз алдынча билим алуу жөндөмүн жакшыртары белгиленет. Изилдөөнүн жыйынтыгында компьютердик технологияларды билим берүү процессинде туура жана эффективдүү колдонуу англис тилин окутуунун натыйжалуулугун жогорулатары аныкталат.

Ачык сөздөр: англис тили, компьютердик технологиялар, билим берүү, маалыматтык технологиялар, интерактивдүү окутуу, интернет ресурстары

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Роль компьютерных технологий в процессе обучения английскому языку и влияние современных технологий

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Аннотация

В данной статье рассматривается роль компьютерных технологий в процессе обучения английскому языку и их влияние на систему образования. В настоящее время информационные и компьютерные технологии широко используются в сфере образования, способствуя повышению качества обучения. В частности, при обучении иностранным языкам мультимедийные средства, интернет-ресурсы и интерактивные программы повышают интерес учащихся к знаниям и помогают им эффективно осваивать язык. В статье анализируются возможности и преимущества обучения английскому языку с использованием компьютерных технологий. Также отмечается, что современные технологии развивают коммуникативные навыки учащихся и улучшают их способность к самостоятельному обучению. Результаты исследования показывают, что правильное и эффективное использование компьютерных технологий в образовательном процессе повышает эффективность обучения английскому языку.

Ключевые слова: английский язык, компьютерные технологии, образование, информационные технологии, интерактивное обучение, интернет-ресурсы