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МААЛЫМАТ ЖАНА БАЙЛАНЫШ ТЕХНОЛОГИЯЛАРЫНЫН ОКУТУУ ЖАРАЯНЫНДАГЫ РОЛУ

Маалымат жана байланыш технологиялары билим берүү мүнөзүн толук өзгөртө алат: кайда, качан, кантип окутуу мүмкүнчүлүктөрүн берет. Бул окутуу жараянындагы маңыздуу, жагымдуу жана унутулгус билимге ээ болууга өбөлгө түзөт.

Ачкыч сөздөр: Маалымат жана байланыш технологиялары, окуу процесси, окутуунун тили, МБТнын маанилүүлүгү, интеграциялоо, МБТны киргизүү, билим берүү процесси

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РОЛЬ ИНФОРМАЦИОННЫХ И КОММУНИКАЦИОННЫХ ТЕХНОЛОГИЙ В УЧЕБНОМ ПРОЦЕССЕ

ИКТ могут изменить суть образования: где, когда, как и каким образом происходит обучение. Способствует появлению в обществе знаний, особое внимание будет уделяться обучению на протяжении всей жизни.

Ключевые слова: ИКТ, учебный процесс, язык обучения, важность ИКТ, интеграция, внедрение ИКТ, образовательный процесс

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THE ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY IN TEACHING PROCESS

ICT has the potential to transform the nature of education: where, when, how and the way learning takes place. It will facilitate the emergence of responsible knowledge society emphasizing lifelong learning with meaningful and enjoyable learning experiences.

Key words: ICT, teaching process, learning language, importance of ICT, integration, implementation of ICT, educational process.

Today, we cannot imagine our personal and professional lives without the use of computers and smart devices as they play a vital role in all spheres of modern life. The application of the information technology in learning and teaching has already become integral part of our language classroom. Being a teacher today does not only mean standing in front of students with a book in one hand and a piece of chalk in the other. Due to the changes in the society and the rapid development of information technology, approaches towards teaching and learning have changed a lot. The use of ICT in language teaching maximizes a lot of new possibilities for effective communication for both teachers and the students not only to develop their language skills, but also they broaden knowledge of using ICT successfully to make teaching and learning better. The lesson with the use of ICT is visual, colorful, informative, interactive, saves time for the teacher and the student, allows the teacher to work at their own pace, allows the teacher to work with students in a differentiated and individual way, gives the opportunity to monitor quickly and evaluate the results of training. The actuality of this article is the effective use of information and communication technologies (ICT) in the educational process, as well as it is an urgent demand of present.

Currently, a teacher in any discipline should be able to prepare and conduct a lesson using ICT. ICT stands for Information Communication Technology. The term is defined differently in the literature since it is considered as a term. UNESCO defined ICT as forms of technology used for creating, displaying, storing and exchanging information [1]. The end of the XX century is becoming a new era of active development and distribution of ICT. The current stage of ICT development is characterized by a particularly strong influence of technology on all processes occurring in modern society. Providing instant spreading of information, they form a global information space. ICT actively penetrates into the spheres of human activity, optimizing the functioning of science, education, culture, politics, the household industry, as well as the spheres of economic and national security. Nowadays ICT cannot be separated from our daily needs. ICT makes English language environment interactive, flexible and innovative. The application of computer technologies in language instruction provides a student-centered learning environment. Integrating technology into language instruction reduces teacher-centered learning environment.

Technology can be applied in teaching practices to enhance and facilitate foreign language learning. Computer, internet, smart boards, cell phones, video games, music players etc. are used in the target language learning process to raise students' motivation and language awareness [2]. No doubt, that ICT is a valuable and an innovative teaching tool enhancing EFL learning. The rapid growth of ICT has naturally influenced by every aspects of language teaching process. Using technology has positive effects on teaching and learning English. The implementation of ICT will lead to variety in English content, contexts and pedagogical methods in teaching environment. ICT makes English language environment interactive, flexible and innovative.

The application of computer technologies in language instruction provides a student-centered learning environment. It enables course administrators and teachers to vary lesson presentation styles to motivate students of varying interests, provides learning opportunities outside the classroom, and is perceived to cater more for individual differences. Integrating technology into language instruction reduces teacher-centered understanding and students' language learning anxiety, but encourages them to be risk takers to practice target language as they are digital natives. Jayanthi and Kumar (2016) explain the positive impacts of ICT on ELT under the basic headings such as: availability of materials, students' attitudes, learner autonomy, authenticity, helping teachers, student-centered, and self-assessment [3]. The availability of large body of authentic materials such as images, animation, audio and video clips facilitate presenting and practicing language. As for students' attitudes, ICTs increase motivation. The students feel highly

motivated to learn a language as they displayed positive attitudes towards language learning as they use computer and learn in stress-free learning environment.

In addition, ICT fosters learner autonomy as ICT tools provide learners to take responsibilities for their own learning. Students are free to choose the material convenient for their learning styles. Furthermore, ICT provides authentic situations and real life learning environment. As ICTs offer different types of facilities and availability of teaching materials, EFL teachers only suggest and design these tools as complementary teaching materials. Contrary to traditional learning environment, ICT supports student-centered learning together with teacher-student interaction.

As for assessment, with the ICTs both receptive and productive skills are easily and effectively assessed. The teacher may decide and design relevant materials to test students' achievement in all skills. The advantages of ICT usage in foreign language teaching can be listed as:

1. *Capacity to control presentation.* This capacity marks the difference between computers and books. Books have a fixed presentation, unlike computers, which can combine visual with listening materials, text with graphics and pictures.

2. *Novelty and creativity.* A teacher may use different materials for each lesson, not like in teaching with textbooks, where all classes presenting a certain topic are the same.

3. *Feedback.* Computers provide a fast feedback to students' answers through error correction. It not only spots the mistake but also corrects it, sometimes even giving the appropriate advice.

4. *Adaptability.* Computer programs can be adapted by teachers to suit their students' needs and level of language knowledge [4]. There is a significant evidence of the benefits and advantages that the use of ICT can have on learners. The effective use of ICT impacts on learners and various aspects of the learning process can be summarized as follows: ICT increases learners' motivation and thus enhances personal commitment and engagement; ICT improves independent learning; Learners' collaboration and communication are more important; Learners' attainment and outcomes are improved. Use of ICT in teaching-learning environment can bring a rapid change in society. It has the potential to transform the nature of education i.e., where and how learning takes place and role of learners and teacher in the process of learning. It is essential that teachers must have basic ICT skills and competencies.

It is for the teacher to determine how ICT can best be used in the context of culture, needs and economic conditions. Good teaching is not simply adding technology to the existing teaching and content domain rather it should cause the representation of new concepts and requires developing sensitivity to the dynamic, transactional relationship between the three components of knowledge: Content, Technology and Pedagogy. During the last three decades, the changes in educational environment have been phenomenal. The model, focus, role of the learner and technology has been changed considerably from traditional instruction to virtual learning environment.

The use of ICT in learning a foreign language helps to intensify and personalize learning, promotes interest in the subject. In addition, the ICT contribute to overcoming the psychological barrier of students to the use of a foreign language as a means of teaching, learning, communication, assessment, checking home assignment.

Teachers are applying various educational platforms such as Google Classroom, Google Forms, Google Drive, Zoom, Webex, Google Meet, Kahoot, ZipGrade and many other free educational platforms. To show the effectiveness of implementation and integration of ICT in teaching and learning process, the study was conducted in Osh State pedagogical university, faculty of humanities. A total number of 25 teachers were drawn from our chair of English. The instrument for data collection was a close-ended questionnaire (See the **Table 1** and the **Diagram 1**).

Table 1

10 items focused on 25 teacher's perception and the effectiveness of using ICT in teaching foreign language

No	Items	Strongly agree	Agree	Strongly disagree	Disagree
		Frequency and percentage			
1.	I find it easier to teach by using ICT	4 16%	19 76%	0	2 8%
2.	I feel confident learning new computer skills.	5 20%	15 60%	0	5 20%
3.	I think that ICT supported teaching makes learning more effective	4 16%	20 80%	0	1 4%
4.	The use of ICT helps teachers to improve teaching with more updated materials	6 24%	18 72%	1 4%	0
5.	I think the use of ICT improves the quality of teaching.	6 24%	17 68%	1 4%	1 4%
6.	I think the use of ICT helps to prepare teaching resources and materials.	5 20%	20 80%	0	0
7.	The use of ICT enables the students' to be more active and engaging in the lesson.	4 16%	18 72%	1 4%	2 8%
8.	I think the use of ICT in teaching is a waste of time.	1 4%	4 16%	5 20%	15 60%
9.	Students' pay less attention when ICT is used in teaching.	2 8%	2 8%	19 76%	2 8%
10.	I am confident that my students' learn best without the help of ICT.	0	5 20%	16 64%	4 16%

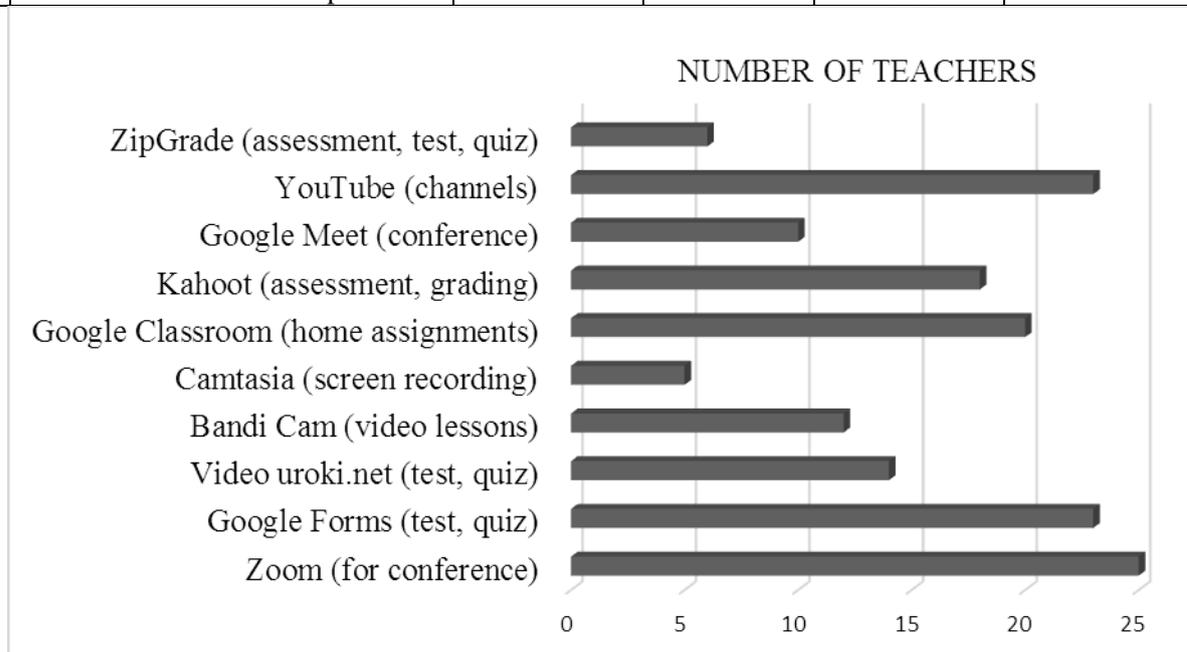


Diagram. 1. shows appropriate, suitable, easy forms of ICT in teaching effectively for teachers

A survey questionnaire with a total of 10 items was used as the main instrument in this study to analyze the effectiveness of ICT in teaching and learning process. All respondents were asked to read the statements given and choose their answers based on 4 scale ranged from 4- Strongly Disagree, 3- Disagree, 2- Agree and 1- Strongly Agree. From the table it is displayed that most teachers agreed that the use of ICT will definitely provide lots of opportunities for an effective teaching as well as ICT supported teaching makes learning more effective.

This situation shows that teachers view the use of ICT in teaching and learning process as something positive where ICT is the aid needed by teachers to ensure the effectiveness of both teaching and learning process. Next, from the data obtained, it also shows that the use of ICT in teaching enable the students to be more active and engaging in the lesson prepared by the teachers. This is because students are familiar with ICT and they find it easier learning by ICT and allows them to be engage more in the lesson. But the teachers who agreed with the 9th (Students' pay less attention when ICT is used in teaching) and 10th (I am confident that my students' learn best without the help of ICT) items are the teachers who prefer traditional methods.

As an assessment form Zip Grade, Camtasia as a screen recorder of the video lessons are not used by most of the teachers. The results of questionnaire show that integration of ICT in teaching and learning is more effective in compare to traditional classroom. This is because, using ICT tools and equipment will prepare an active learning environment that is more interesting and effective for both teachers and students. The results are proved using ICT in education would enhance students' learning. However, most of teachers in this study agree that ICT helps to improve self- development, computer literacy and digital competence. Moreover, this questionnaire proved that students learn more effectively with the use of ICT as lesson designed are more engaging, entertaining and everlasting. Accordingly, the participants agreed that integrating ICT can foster students' learning.

The fundamental stage of ICT implementation must be effective to make sure that, teachers and students are able to make the best use of it. Thus, preparations of a technology-based teaching and learning begin with proper usage and supports by the educational institutions top management. If the implementation process of technology integration in schools take place appropriately from the very beginning stage and the continuous maintenance are adequately provided, ICT integration will result in a huge success and benefits for both teachers and students. The use of ICT especially in teaching and learning is more about practicality as compared to theories and that is why teachers must be given time to learn and explore it, before they are completely comfortable with its usage and able to make use of it for teaching and learning.

Alluding to thoroughly investigated materials one may conclude that implementing ICT in teaching process demands the digital competence of teachers, aware of choosing appropriate materials, design everlasting lessons, empower students to integrate gained skills with the real life. I state a quotation by a great teacher, technology facilitator, and school and district administrator, and currently an Adjunct Instructor with the Graduate School of Education at the University of Pennsylvania George Cuoros that "Technology will never replace great teachers, but technology in the hands of great teachers is transformational".

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