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## Multimedia in learning aviation English

The paper deals with using modern educational technologies in the process of learning Aviation English. With the aim to find new effective and scientifically grounded approaches to teaching at an advanced level the analysis of multimedia possibilities of use for training aviation professionals is made. The advantages and problems of using multimedia are defined.

High-quality language training in technical universities is impossible without the use of modern educational technologies. Ab initio aviation professionals must be competent and ready to communicate in the native language and English in their professional activity as it is guided by regulations on air navigation in accordance with the standards and recommended practices of the Civil Aviation Organization [1]. English proficiency is significant in contributing to air transportation safety. Studying Aviation English is an obligatory requirement for the professional activity of future specialists. The use of various flight-simulation training exercises is appropriate for obtaining the required aeronautical proficiency, competence in aeronautical tasks, and cognitive skills. Full-motion flight simulation should be used during advanced flight training to ensure a solid foundation of aeronautical abilities.

Multimedia is a modern technology that refers to computer-based interactive applications. It is a combination of text, graphics, animation, video and sound. This technology uses both hardware and software that allow people to share their ideas and information [2]. In recent years, along with textbooks, manuals and notebooks, a lot of animated training courses in foreign languages, which are multimedia products, have appeared; various graphics (static images, drawings, photos, diagrams, tables, animation, dynamic images, video fragments) and sound (speech, music, functional noises and sounds) are displayed on the screen together with text information. Increasing interest in multimedia technologies is connected, first of all, with the possibility of making quite complex programs without the help of professional programmers. The main capabilities of technology are the use of readymade software products for learning supplied mainly on CDs, software products created by teachers or teachers with students and Internet resources. It aims to prepare aviation professionals for being competent pilots, air traffic controllers or an engineer ready to fulfil their main duties and responsibilities in his/her workplace This modern technology requires dedication and commitment by the student, as he or she passes through all stages of the Aviation English language training. English is an indispensable tool not only for working in international companies but also for exchanging experience with foreign colleagues. Acquiring the appropriate language for a variety of professional, social and intercultural situations is imperative for successful global business communication, particularly across cultures.

In the context of Aviation English teaching such training includes professionally oriented foreign language learning, project works, the use of information and telecommunication technologies, working with educational computer programs, creating presentations in the Microsoft PowerPoint software environment, and using authentic resources from the Internet. It should be noted that Aviation English skills can be mastered with the help of online platforms. For example, aviation vocabulary can be easily learned and taught with the use of the following games: Ouizlet: Kahoot: Ouizziz. Such online tools as Learning Apps. Wordwall and Flippity can make working on grammar easier and more studentoriented because of getting rid of paper tasks and adding more self-control. Also, there is another way to present discussions. Teachers can make games or wheels with questions with the help of Bamboozle or Wheel of Names. The most helpful tool for teachers – a whiteboard -which was taken from us can be replaced with the next websites; Miroboard; Webwhiteboard; Jamboard. The main aspects of this process are weather conditions; aircraft technical characteristics; professional competence of pilots; air traffic controllers and technical support staff, which include pilots' skills in managing aeroplanes, ability to critically evaluate various situations in the course of professional activity and in the process of performing their professional duties, professional English competence and communicative skills. The language material correlates with professional terms and is expanded whenever possible. The main goal is to consolidate and practice the material that has been used. Despite the fact that they are auxiliary in purpose, their role is simply huge.

Language proficiency does not mean knowledge of vocabulary, grammar rules and norm of pronunciation, it is a complex interaction of a number of skills and abilities, which constitute a person's communicative language skills. The six language proficiency skills assessed in ICAO Aviation English Test: are vocabulary, grammar, structure, pronunciation, fluency, comprehension and interactions. In order to acquire the appropriate skills effectively and in an interesting way plenty of online tools were developed. The level of English required to be ICAO Minimum 4 competent would be under the Common European Framework B2. However, most obtaining ICAO 4 are at the CEF level of A2-B1. Level 4 (operational) qualification is considered the minimum "stepping stone" to higher levels. The main advantage of high international standards of Aviation English is that communication between the flight crew and controllers is fully understandable, especially when non-standard words and phrases are used. In addition, improved language skills can help increase flight crews' situational awareness of other aircraft, both in the air and on the ground. That is why, the system of Aviation English language professional training is aimed to find new effective and scientifically grounded approaches to teaching at an advanced level. In the absence of a natural language environment, the use of technology allows the creation of conditions that are close as possible to real speech communication. The highest functionality has a system when the teacher's computer is connected to students' computers by a local network and it helps the teacher to manage the work. It helps to create an integrated information environment in which the user acquires qualitatively new opportunities. Learning is based on the synthesis of speech and images, which allows the audience to fully immerse in the learning

environment. This makes the process of education modern, innovative and professionally oriented.

In our work, we used programs which include a dictionary with explanations of active vocabulary, reference materials, and exercises with keys to consolidate it. Students work over the material first in class and then on their own. They can be given the task to make a script for the episode they watched in class and writing out active vocabulary for it. In the next lesson, the prepared will be discussed. The approach includes the work on the content of the textbook and materials from the Internet. This makes the work with Multimedia unique at every lesson, besides it can help in solving the main tasks of learning in an exciting, relaxed way, and also allows students to try their hand and assess the necessary level of communication skills with the help of a computer. Special editors (multimedia tools) allow teachers to create their own multimedia programs, and they can creatively use them in foreign language classes. Multimedia technologies allow the integrated use of various media: text, graphic images, sound, animation and video clips. Of particular value is the fact that these elements are connected to each other: the text is accompanied by illustrations, oral speech, videos, etc. With its help elements of communication are introduced into many exercises; the repeatability of language units increases due to the possibility of multiple uses of the same game with variations in language material and conditions (speed, number of attempts, etc.); availability of the game at any time, even during the teacher's absence. With the help of modern multimedia tools, a lot of opportunities are provided for consolidating, practising, learning and memorizing new words and phrases, as well as for the development of conversational skills. At the same time as Ahmadi indicated 'technology resources cannot guarantee teachers' teaching and learners' learning. Teachers should be convinced of the usefulness and advantages of technology in improving learners' learning'[3]. They should assist students in mastering educational material on the basis of a specially created computer program.

The study proves that the use of computer programs contributes to the rapid formation of students' language skills. The joint use of different types of information presentation allows for speeding up the memorization process significantly. A comprehensive approach to teaching foreign languages should be implemented - all types of language activities can be simultaneously taught in their interrelationship. With the help of computer programs, language can be learned at an individual pace and sequence, which allows for taking into account the psychological characteristics of every one.

Using the approach for six weeks period allows us to assert, that Multimedia technology has some advantages and problems as well.

Advantages:

- With the help of audio, visual and animation effects, this technology motivates students to learn Aviation English more quickly and effectively, it improves students' ability to listen and speak, thereby developing their communicative competence.
- It helps teachers to integrate teaching and learning, to equip students with professional and sociocultural information, and provides an opportunity for sharing information among students, making them participate in class activities more

actively. Such technology provides greater incentives for students; it helps the students to learn the language more quickly and effectively.

- It creates a more real-life professional environment, and context for Aviation English teaching by exchanging information among students and between teachers and students improves interaction among students and between teachers and students and provides immediate feedback on the correctness of the learner's response.
- It increases student engagement, offers flexibility and enables teachers to create a flipped classroom.
- It provides a go-to resource that can be watched from anywhere with an internet connection.
- Students learn to perceive information differently and develop speaking skills to remember information with visual and audience memory.
- The visual and auditory nature of multimedia appeals to a wide audience and allows each user to process information in a way that's natural to them.

## Problems:

- The role of multimedia in the teaching and learning process can't be exaggerated. It is easy for teachers to become dependent on technology, fail to show enthusiasm and creativity in class and make the computer play the most important role in the process of teaching. The role of multimedia is only supportive and it must not replace the guidance of teachers completely.
- Multimedia is worth limited use. With the aim to make the teaching process more vivid and attract students' interest, it is easy for teachers to show the teaching material as much as possible and use technology too much and often. As the result, it is difficult for some students to grasp the content and consolidate the information in a short time.
- The process of multimedia teaching requires teachers with certain experience. Many teachers do not belong to the 'digital native' generation; sometimes it is a challenge for them to use multimedia equipment.
- Teachers' unskilled operation of multimedia equipment, and unexpected problems frequently happening during the class would demotivate students.
- The teachers in the multimedia class are busy with computer operations, and a lack of interaction between teachers and students is observed.
- The teachers' workload for multimedia materials preparation increases substantially.

Despite modern teaching methods and technologies having many advantages, traditional teaching methods are still commonly used because of their strong points. One of them is providing interaction which is very important and can't be ignored. Besides teachers' explanations play an extreme part, which is an art of language and cannot be replaced by any other teaching approach. The use of computer programs has a positive effect on students' motivation to learn the language. Students need to develop the ability to critically evaluate educational programs and Internet sites from the point of view of their effectiveness for learning foreign languages and compliance with learning goals. It is a competitive selection

that will ensure the effectiveness of the introduction of new technologies. A positive atmosphere in class and interest in the subject of study is of great importance.

## Conclusions

The foregoing allows us to draw the following: Multimedia is a very useful modern technology which can combine audio, visual and animation effects. This technology makes the educational process dynamic and motivates students to learn, raises students' attention to the content, helps to clarify the concepts and process, joins the study material with real life, improves students' ability to listen and speak, and thereby develops their communicative competence. It helps to equip students with professional and sociocultural information and provides an opportunity for sharing information among students. In the absence of a natural language environment, the use of technology allows for creating conditions that are close as possible to real speech communication and significantly increases the effectiveness of teaching.

However, multimedia technology can only help in the process of teaching; it has a supportive role and must not replace the teachers' guidance. In the context of Aviation English teaching teachers have to be enthusiastic and creative in class, they have not let the computer play the most important role in the process of teaching. While training aviation professionals teachers should be competent enough and have a clear idea of how to use multimedia. Technology can't be used all the time during foreign language classes, because there are many other problems that can be solved only by direct communication. It is a kind of computer training that carries a huge motivational potential and corresponds to the principles of individualization of training, but it is worth limited use.

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