agricultural policies and obtaining complete information on the state of the food complex in the country., and will also allow the use of census materials in the field of agroeconomic research which will additionally make scientific research more interesting and productive.

References

- 1. Итоги Всероссийской сельскохозяйственной переписи 2016 года: В 8 т./Федеральная служба гос. статистики. М.: ИИЦ «Статистика России», 2018.
- 2. Никонова Г.Н., Трафимов А.Г. Всероссийская сельскохозяйственная перепись как источник информации о развитии аграрного сектора // Известия Санкт-Петербургского Государственного Аграрного Университета. 2017. № 49. С. 207-212.
- 3. Оперативные итоги сельскохозяйственной микропереписи 2021 года. (https://rosstat.gov.ru/).
- 4. The FAO World Programme for the Census of Agriculture (FAO) (https://www.fao.org/).

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THE E-LEARNING EXPERIENCE IN LESSONS OF PROFESSIONALLY ORIENTED FOREIGN LANGUAGE

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Аннотация: В статье дается определение электронного обучения. Приведен анализ его роли в образовательном процессе. Подробно рассмотрены рекомендации автора по внедрению элементов электронного обучения в очные занятия по дисциплине «Иностранный язык в сфере профессиональной коммуникации (туризм)».

Ключевые слова: E-learning, traditional learning methods, student, teacher, professional skills.

The E-learning, also referred to as online learning or electronic learning is the combination of electronic technologies and pedagogical science. It can also be defined as "learning that is enabled electronically". Typically, e-learning is conducted on the Internet, where students can access their learning materials online at any place and time. E-Learning most often takes place in the form of online courses, online degrees, or online programs.

Online learning has numerous advantages over traditional learning methods. Some of these include the possibility for students to make use of self-paced learning and to choose their own learning environments. Additionally, e-learning is both cost-effective and cost-efficient, as it removes the geographical obstacles often associated with traditional classrooms and education.

With that being said, it must be noted that e-learning is not perfect. Conducting any of the various types of e-learning through the Internet means sacrifices in one way or another. Increased risk of cheating during assessments, social isolation, and lack of communicational skill development in online students are just some of the challenges of e-learning which need to be addressed. Read our separate post on the disadvantages of e-learning in order to get a better overview of the drawbacks associated with e-learning.

During the pandemic of coronavirus teacher and students from all over the world had to start use it more actively. And what is more interesting – most of them really liked it. Due to such great advantages as accessibility at any time and opportunities to study and work at home, e-learning showed remarkable growth. It helped us to continue studying and teaching, to feel ourselves alive at those difficult times. Fortunately, nowadays we are not indebted to stay at home. Things go back to the way they were. But e-learning hasn't passed away. And we use it widely in the educational process.

The e-learning can be used as the only resource of studying. In this way we should talk about various online courses. Many accredited online colleges already offer online degree programs, and more of them will start to do so in the upcoming years. As more educational institutions, corporations, and online learners worldwide start to recognize the importance of online learning, its role in education will only continue to rise. And some teachers believe that the future of education is in absolutely changed education – no classrooms and schools, only computer at your own room.

But also e-learning should be considered as a really effective educational tool. Usage of online-courses in combination with working in a real classroom can lead to an educational success. If a teacher takes only advantages in both traditional and online educational systems, a student will gain not only required hard-skills, but also important soft-skills.

And all of that mentioned above is really suitable for organizing the academic college course «Foreign language in the sphere of professional communication (tourism) ». Talking about tourism as an industry, we can't deny the fact, that good knowledge of foreign language helps the employees to communicate with the clients, understand their needs, and satisfy the demands.

The course focuses on getting both language and professional skills. Students have to learn a lot of words and specialized terms, find out the ways of correct behavior in different countries, learn how to speak with a customer correctly, prepare tour products and be ready just for ordinary communication. These entire tasks are rather complicated and ask for a great amount of studying time. And in combination with the low level of General English knowledge it leads to troubles with curriculum and - what is worse – to negative educational results. And in order to prevent such situations we suggest including elements of e-learning into the traditional educational process. They would support both students and teachers, provide necessary or extra information, create conditions for using authentic materials or preparing home tasks, and even motivate students.

During my own lessons, analyzing progress of my students, the success of the implementation of the set didactic goals and, most importantly, the feedback of the students, I identified some advices for the successful lesson with using e-learning elements.

- 1) The lesson should be structured. You should know why and when your students start to use the educational platform. It should support, not distract. It's better to have a written lesson plan.
- 2) Use hyperlinks in your MOODLE-lesson. It seems simple, but provides your lessons with extra material. For example, ready-made video lessons. What is difficult to perceive from the written abstract of the lecture can be filled with a beautifully designed video on this topic. (YouTube, Vkontakte). Also we should effective outline resources such as www.liveworksheets.com (there you can practice you listening skills) and www.gamestolearnenglish.com (site with short online games) and so on. They are helpful tools for memorizing and visualization new materials.
- 3) Work with authentic materials. If we talk about studying language, it is useful to remember: English is constantly changing. And authentic materials can show to you and your student these changes. How the speaker says, how he sounds using network resources allows you to develop communicative competence, increasing interest in the subject. For teaching and studying foreign language in the sphere of professional communication (tourism) I would strongly recommend sites Revfine.com and rather famous booking.com.
- 4) Introduce applications into the educational process. For example, Quizlet is a phone application that helps you learn words. There are many applications, but this one has valuable advantages. First of all, it's flexible. You can study any subject. Also it does not scatter attention. There is only one goal to help learn words. To do this, developers have a whole arsenal of ways. And the most important thing is that the lists of words modules are created by the teacher on the basis of the lesson! You chose words and their definitions. Modules can be grouped into Courses. Such interactive lists contribute to a more efficient memorization process. Modern students prefer to receive information quickly, clearly and preferably from the phone screen. The Quizlet allows you to turn this to your advantage. The new form of learning takes a new shape that is more accepted among younger genera-tions grow up with mobile devices.

Summing up, it should be noted that e-learning allows not only students to grow, but also the teacher. It provides opportunities to search for something new, enriches knowledge, makes it possible to touch the native language.

Библиографический список

- 1. Kucirkova L., Alipichev A.Y., Vasbieva D.G., Kalugina O.A. Teacher's Role and Students' Role in English for Specific Purposes in E- Learning // XLinguae. $-2017. \text{Vol. } 10. \text{N} 2. \text{P.}63-77.}$
- 2. Practical solutions to foreign language training courses implemented using distance learning tools / A.Y. Alipichev, S.N. Khalevina, A.A. Trubcheninova, A.N. Fedulova. // IEJME: Mathematics Education. 2017. Vol. 12, is. 1. P. 59–68.

- 3. Коваленок, Т.П. Формирование специальных способностей в процессе профессиональной подготовки / Т.П. Коваленок. // Методист. 2018. № 7. С. 48—51.
- 4. Таканова, О.В. Разработка профессионально ориентирующего содержания общеобразовательных дисциплин в агроинженерном вузе: автореферат дис. ... кандидата педагогических наук: 13.00.08 / Таканова Ольга Владимировна; [Место защиты: Моск. гос. агроинженер. ун-т им. В.П. Горячкина]. Москва, 2009. 22 с.

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INVESTIGATION OF THE DYNAMICS OF THE ATMOSPHERIC BOUNDARY LAYER OVER AN INHOMOGENEOUS SURFACE

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Abstract: This paper presents a study of the dynamics of the boundary layer on a small northern lake surrounded by a forest in winter of 2015. A series of experiments were carried out on lake Verhnee located near the biological white sea station of the Moscow State University.

Keywords: boundary layer, inhomogeneous surface, weather models.

The planetary boundary layer is the lower part of the troposphere lying in direct contact with the surface of the planet. Active turbulent mixing of air takes place in the boundary layer of the atmosphere. The interaction of the atmosphere with the underlying surface is an important part of its circulation on a temporal and spatial scale, since the underlying surface is a source (sink) of momentum, moisture and heat. Quantification of momentum, heat and mass transfer between the atmosphere and the underlying surface is a key problem in the study of the atmospheric boundary layer.

In order to study turbulence, usually measures of the lower parts of atmosphere (tens of meters) are taken, where the effect of the Coriolis force can be neglected. In general, it is necessary to fulfill the following conditions:

The underlying surface need to be smooth. The temperature and wind fields should be homogeneous in the horizontal direction.

Stable weather conditions are required. The temperature and wind speed fields are statistically stationary.

Under such conditions, the meteorological fields of statistical characteristics does not depend on time nor on the horizontal coordinate of the measurement point.