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DOES ELEARNING WORK?

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We conducted a meta-study, i.e we analyzed dozens of other studies. The study consists of four parts. The first and second compare e-learning and classroom learning, and also consider the features of blended learning. The third and fourth are about teaching methods and their effectiveness online and offline. Scientists Sitzman, Kreiger, Stewart and Wisner used a methodology that allowed them not to mix teaching methods (lecture, testing, etc.) and delivery methods (online and offline).

It turns out that online and offline learning separately are equal in efficiency, but if online components are added to classroom learning, then its effectiveness will increase dramatically.

Advantages of offline education.

The most obvious plus of offline learning is the help of teachers in the analysis of complex information, material, discipline. Development of self-discipline, self-motivation and self-development. Not every first-year student understands that the assessment is not the most important thing. Not everything can be assessed on a 5 or 10-point scale. The main thing in the process of obtaining higher education is to understand and assimilate the course. This is exactly what the student needs. Therefore, if you have questions, do not hesitate to ask your teacher, ask for help and clarification during and outside of class. The quality of your education, your future competence depends on it.

1. The usual format.
2. The ability to work out mistakes in practice on the trading floor.
3. Quick feedback from the teachers and students.
4. Psychological support.
5. Exchange of experience.

Disadvantages of offline education

1. Travel expenses, accommodations etc must be taken care of, if the student hails from place where there is no school or education instruction The timing of the.
2. The learning is confined to fixed timings. It can only occur between the classroom's timings.
3. Standard training.

These findings were confirmed by a 2014 study by scientist Bernard and his colleagues, who focused specifically on blended learning in higher education.

Thus, blended learning is effective simply because it combines different learning methods. We conducted an experiment using a “flipped classroom,” a blended learning method in which students watch lectures online and then practice their knowledge in practice in the classroom. In the study, the flipped classroom was compared alternately with online learning only, with classroom learning only, and with the reverse classroom (where students studied lectures in class and practiced online).

For the experiment, 3 learning tools were chosen: lectures, guiding questions, and a textbook. Students wrote short essays as responses to a learning topic and used guiding questions to make changes to them. As a result, the flipped classroom performed better than both eLearning and classroom teaching, but its superiority over the reverse flipped classroom was minimal.

In another experiment, the role-based learning method was studied online and offline. In most cases, there was no difference in efficiency, and where it was observed, it could be said that the students felt discomfort when communicating online and, if they got used to it, the difference would disappear altogether.

Here are the conclusions we came to:

eLearning shows slightly better learning outcomes compared to classroom learning in the area of declarative knowledge, that is, knowledge of facts and principles;

eLearning and classroom learning were equally effective in the area of procedural knowledge

- knowledge of how to demonstrate skills, solve problems, etc.; educators were equally satisfied with both eLearning and classroom learning; and most importantly, blended learning outperformed classroom learning by 13% for declarative knowledge and 20% for procedural knowledge.

Online learning can be more effective than classroom learning, it can be the same or even worse. Online learning can be more effective, but it doesn't have to be. If you constantly pay attention to the quality of training, then offline and online training will show equally good results. If we consider individual teaching methods, for example, simulation, animation, digital games, feedback, interactive, they show different results depending on the scope of application (for example, simulation is effectively used in medical education).

Blended learning is more effective than classroom learning, most likely because it uses the best online learning methods. To build a quality educational process, you do not have to choose between online and offline. It is necessary to determine the goals that you want to achieve through training, and then select methods and tools for them.

Research results on the effectiveness of online education are mixed. E-

learning has a number of undoubted advantages. But it also has its drawbacks, as well as the traditional way of learning. Despite all the pros and cons of both formats, due to constant innovation, a huge flow of information and the speed of obsolescence of knowledge, the best option is to combine the old and new formats. Combining the two formats will save on training and make it more effective and interesting, as well as increase the involvement of different types of employees in training.

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