

MODELING AND OPTIMIZATION OF THE EDUCATIONAL PROCESS WITHIN THE ONLINE TECHNOLOGIES

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Introduction. Independent work of students (IWS) is a key component of the educational process that helps to improve the efficiency of the education. The disadvantages of IWS are lack of contact with the teacher, organization and control of the knowledge gained. Modern technologies allow to eliminate the existing shortcomings through the use of electronic materials, creating video lectures and online testing. Developing a new approach to knowledge control and visualization of educational material are key organizing factors of the training activities to provide the feedback from the students, which determines their value, efficiency and perspectiveness. This problem was understood clearly in high school in the past 10-15 years. Universities are creating their own integrated electronic information and education systems (EIES), deploying distance learning systems, developing electronic modules in order to improve the quality and effectiveness of the education.

Educational process at the clinical departments differs from the theoretical departments, requiring a fundamentally new approach to preparation for practical classes from fifth and sixth-year students. There has been a tendency to reduce both lectures and practical training hours, which can lead to loss of quality of education. At the same time the workload on IWS increases, which requires optimizing the learning process. In this case, blended learning system comes to help us.

Blended learning (BL) is a learning process, based on the integration of classroom and out-class learning activities using and complementing the technologies of traditional and electronic learning. The basic idea of the BL is the reduction of classroom studies through the moving the part of training in the electronic environment.

Nowadays, such giants of education as Hopkins University, where medical students also study, provide the BL system.

Aim. The purpose of the study is theoretical substantiation of the problem of using electronic and distance learning, review of methods of optimization and modeling of the learning process by integrating educational material online via the Internet.

Materials and methods: logical and theoretical analysis of philosophical,

psychological, pedagogical and methodological literature; study of teaching experience; analysis of curriculums, programs, textbooks of internal medicine.

Results and discussion. On the basis of Kharkiv National Medical University, the use of electronic learning system – “Repository” is actively promoted. It includes not only expanded scientific articles, but also teaching tools and materials developed by theoretical and clinical departments to improve the IWS and shows scientific activity of employees and students.

The clearest example of distance e-learning on the world stage is an educational resource Coursera, which combines many curriculums from many universities and allow taking courses from various disciplines, including medical. The student can receive a certificate of completion of the course in a particular discipline after creating independent works and passing the module. Our foreign colleagues not only introduce this system among students, but also use it as part of training of specialists.

In the medical field has such a platform resource Medscape, which conducts seminars and provides video training materials for education of health professionals of different specializations. If doctor gets the total number of credits he receives confirmation of the completion of the refresher course after participating seminars with passing the test module.

Conclusions: BL is for Ukrainian education not yet fully developed and realized, being considered in the world the most qualitative and promising model of the organization of the educational process that will optimize the learning process by integrating the educational material online.

Thus, mixed education can be seen as an alternative to classical pedagogical education.