

## **WORKING OUT AND USAGE OF DIDACTIC COMPLEXES OF INFORMATIONAL PROVISION OF EDUCATIONAL DISCIPLINES IN THE TRAINING OF FUTURE TEACHERS**

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In "The national doctrine of education in the Russian Federation till 2005" arises the problem of improvement of educational quality. Modern ways change many, made by years, ideas about the essence of pedagogic labor – today it is related to the aspects of informatization. The necessity of educational informatization is underlined in the most important normative documents, which reflect state educational politics in the Russian Federation: "The concept of educational informatization" (1990), "The concept of informatization of educational sphere in the Russian Federation" (1998), "The concept of modernization of Russian education till 2010" (2002), etc.

The development of educational system is related with active adoption of informational technological achievements in the educational process. Especially it concerns the new forms and educational means, based on the usage of informational and TV-communicative technologies. Between them is also electronic and distance education, supposing active usage of new type of educational literature – educational electronic editions.

The modern stage of development of computer technology means, on the one hand, opens new opportunities and perspectives for making computer educational systems, and on the other hand – more and more growing complexity of such systems gives harder demands to the qualification of their makers and users.

The main aim of educational activity of higher education is the students' mastering of theoretically generalized in content knowledge and skills, with the help of those they can solve different practical problems.

The idea of realization of educational discipline content within the framework of didactic complexes, and with the development of educational means, mainly computers, and the idea of making didactic (program-methodic) complexes on the informational bases is not new in the pedagogics of our country.

Under the didactic complex of informational provision of educational discipline we understand the didactic system, to which (with the aim of making conditions for pedagogically active relationship between a teacher and learners), pedagogic program products and the base of facts are integrated, and also the total combination of other didactic means and methodic materials, securing and supporting educational process.

Among values of didactic complexes of informational provision of educational discipline we can name the following:

- pedagogic program means, included in the didactic complex, represent integrated system, which can carry out collection, organization, custody, processing, transmission and presentation of educational information;
- all the elements of didactic complex are interrelated and have unique informational basis and programmed-apparatus set;
- possibility of usage the didactic complex in local and also in allocated computer nets of higher institutions and also in the distance form of education;
- the didactic complex provides the possibility to form technic-organised conditions for making different operations and works, characterized for this specialization.

The composition and the structure of didactic complex are rather dynamic and depend on the specific character of the subject for what it is made.

The effectiveness of work in the didactic complexes of informational provision of educational disciplines is achieved because of:

- the structure of educational lesson is changed, instructions are given, students' actions are regulated;
- knowledge isn't transmitted in the prepared way, but mental activity is organized, creative activity and students' independence is developed, accessibility of education and the rate of interpretation of program material is increased;
- students' weariness is decreased, we can note the growing interest to the lesson, the time for original work is increased;
- the possibility for goal-directed pedagogic influence on the character of forming knowledge, skills and abilities, on their intensive formation, on the making of different tasks, mastering of rational forms of educational labour organization is provided, the theory approaches the practice.

For achievement of the aims of the professional teachers' training the realization of educational discipline content in the framework of didactic complexes seems to be perspective and can be recommended as the basis for the organization of educational process in the institutions of higher education.

Among perspective ways of educational informatization we can name working out and optimal usage of electronic educational editions and recourses (EEER), and the enlargement of their usage in the educational process. As one of the types of such editions we can name electronic educational-methodic materials (EEMM).

Under EEMM we understand the totality of structured educational-methodic materials, gathered with the help of computer educational sphere, providing the whole didactic circle of education.

The usage of electronic editions (together with traditional sources) creates new additional opportunities in the spreading of educational and methodic information, and the effectiveness of its replenishment.

It's rather actual taking into account the lack of new published educational literature. In the all courses of "special disciplines" of Master course in the direction of "Informational technologies in the physics-mathematical education" we made EEMM, which are used by students in writing their final qualified works and Master dissertations.

The informational competence of future teachers consists of their readiness to carry out their professional functions, related with the teaching of informatics or other IP – disciplines on the different levels of education, which include a number of components. One of the components is – working out and search for electronic editions and resources, valuation of effectiveness of their usage and adoption in the educational process.

We, together with Masters and teachers of other chairs, made electronic educational-methodic complexes in the next disciplines:

1. Biology with bases of ecology (Registration certificate №18018, from 8 December 2009)
2. Safety and defense of any person in emergencies (Registration certificate №17691, from 12 November 2009)
3. Languages and systems of programming (Registration certificate №18546, from 1 March 2010)

The perspectives of usage E-portfolio method in the educational practice of Universities while teaching Masters of pedagogical direction are widely discussed by teachers, students and administration.

We made E-portfolio method which is now realized in the valuation of educational achievements and Masters' professional development. It consists of multimedia projects on the

content of school informatics, electronic educational materials on mathematics and informatics, the main sources of Master program “Informational technologies in physic-mathematic education”, and also the presentation of Masters’ dissertations.

It’s worth noticing that during realization of E-portfolio method Masters demonstrated integration of skills and knowledge got in different sources of informatics and ICT. While working out and developing E-portfolio method Masters actualized and developed their competence, which was formed by studying different disciplines.

E-portfolio of Masters of recent years is placed in the Internet site “Masters of physic-mathematic education” of the Dagestan State Teachers’ Training University.

### **References**

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