

**TECHNOLOGY OF LEARNING DEVELOPMENT AND REALIZATION OF  
ELECTRONIC EDUCATIONAL-METHODICAL MODELS FOR THE FUTURE  
TEACHERS OF MATHEMATICS AND INFORMATICS**

**Timur Vezirov<sup>1</sup>, Shirvani Bakmayev<sup>2</sup>, Telman Vezirov<sup>3</sup>**

Daghestan State Pedagogical University, Makhachkala, Russia

<sup>1</sup>*timur.60@mail.ru*, <sup>2</sup>*abushka7@mail.ru*, <sup>3</sup>*veteti@rambler.ru*

The actual problem of the modern stage development of the education is a realization of possibilities of infocommunicational technologies in educational process of the school and universities. One of the priority directions is a realization of the didactic possibilities of informational technologies in process of teaching different educational subjects.

In modern study (U.S. Branovskiy, S.M. Ganeev, T.G. Vezirov, S.G. Ivanov, S.S. Kravcov, S.I. Makarov, L.L. Yakobson etc.) [1-4] is emphasized the necessity of the using the facilities of informational technologies in process of mathematical education. It is noted, that the use of separate components or already finished electronic publishing of educational purpose, educational computer programs of mathematics allows to realize automatic checking and self-verification of the results of education, computer visualization of scholastic mathematical information by way of its demonstrative presentation.

One of the efficient directions of using infocommunicational technologies in education of mathematics is making the electronic facilities of the scholastic purpose, promoting shaping methods of decision of the mathematical problems on the base of their classification, and structuring on base type of knowledges used in process of the decision and nature of relationship between them (V.M. Monahov, SH.A. Bakmayev, V.A. Gusev etc.), and phased shaping: theoretical knowledges; the base knowledges for decision of the certain types of the problems; methods of decision; learning for searching decisions of the problems.

In the course of realization of the specified direction we received following results:

- was designed method of the formation and realization system of tasks on separate sections of school mathematics with account of the author's classification and structuring of tasks based on type of knowledges used in process of decision and nature of the relationships between them.
- was designed Teach-methodical complex (TMC) "Plane geometry", including system of tasks on section "Tetragon". Training and checking program and methodical recommendations upon their use.
- was designed methods of the making the electronic textbook on base of the computer mathematical systems for reason of efficient education to some sections of the school course of mathematics, and model to teach student how to develop them.

Theoretical and practical results of the study were approved on the base of the pulpit of the methods of teaching mathematics and informatics of Daghestan State Pedagogical University, Daghestan Institute of Increasing Qualifications of the pedagogical personnel and in multiple rural and town schools.

Given results, as well as analysis scientifically-practical experience of the use the electronic facilities of educational purpose have allowed to go to development of the conceptual model of the methodical system of preparing the teachers of mathematics and informatics to educate students mathematics based on shaping professional skills to develop and use the electronic facilities of educational purpose, including:

- education logic-mathematical and logic-didactic analysis of the theoretical material and mathematical tasks on different educational books.
- studying theoretical material of mathematics with use of infocommunicational technologies.

- making the test of tasks for reason to check base knowledges of students that are necessary for tasks decision of certain type.
- making tasks system based on their author's classification, allowing effectively use infocommunicational technologies (the design of the geometric figures or structures of the expressions; type of the knowledges, used in process of the decision of tasks and nature of their relationship).
- the methods of development and realization of the electronic facilities of educational purpose when learning mathematics.
- system of remote learning teachers to use the electronic facilities of educational purpose.

Practical realization marked by us problems was realized with the help of the following strategy:

1. System approach to modernizations of technologies structure of education mathematics in school and high school with use of electronic facilities for educational purpose.
2. Psychology-pedagogical accompaniment of education system of student, decision of the mathematical problems with use of electronic facilities for educational purpose.
3. The complex experimental study designed methodical system of education (the school and high school).
4. In stage of approbations is found electronic study-methodical module "Technology of the development and usage of Web-site".

#### **Literature**

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