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THE FEATURES OF THE INFORMATION ENVIRONMENT STRUCTURE OF THE ADAPTIVE REMOTE TRAINING SYSTEMS

The informatization (in the wide sense) of various spheres of the general-human activity is directed on the optimizing of the process of creating, distributing and using of the information resources, products, services between the diverse subjects of information interaction in the various subject areas, therefore it is carried out through the local (addressed) creation and introduction of problem-oriented high-technological information and communication infrastructures, directly oriented on the meeting of the dynamically changing information needs of the post-industrial society.

The informatization (in a narrow sense) of the problem environment of educational activity of the modern HEI causes the need of focused analysis and introduction of the existing information and communication technologies for the support the existing / newly created information-educational environment.

The federal target program of The government of RF "The development of the unique educational information environment (2001-2005 y.)" is the adequate answer of modern society on the exponential increase of the cumulative aggregate of knowledge by the range of subject areas: on the one side,- emphasizes the need of association of the local (regional) and the internationalization of the distributed (international) information-education environments; on the other side,- orients on the potential possibility of synthesis of the unique (planetary) info-sphere.

The distance education is the specific aggregated form of education (it is considered as the superposition of organizationally-independent and mixed with the "classical" forms of education,- the division in the "traditional" HEI, the consortium of universities with dealer / brokerage relations, the open "virtual" educational establishment), oriented on the provision of a complex of educational services in a range of subject areas with the using of the specialized information-educational environment.

The developed structure of the information-education portal of the department provides the development of the Web-application, segmented on a set of dynamically filled templates: "Information" (history, employees, laboratories, contacts and schedule), "Science" (activity, projects, publications and postgraduate-study), "Education" (directions, specialties, programs and the remote training system), "Forum" (Tema1, Tema2..., TemaN), at the same time the remote training system acts as the integral part of the cathedral educational environment.

The subjects of the information environment are differentiated by the rights of access and act in the various roles: administrator, author, tutor, guest, applicant and student.

The limitation of communicative duplexity of the "virtual" dialogue between the surplus (author and tutor), deficient (guest, applicant and student) participants is caused by the mediation of information interaction (through the electronic textbook and diagnostic module) and is the drawback of any remote training system, which needs to be researched and technologically eliminated.

In the basis of the automated adaptive information-educational environment is located the computer remote training system, realized by the modular principle (classically), but, along with the electronic textbook and the diagnostic module, structurally including the module of adaptation based on the parametrical cognitive models of the involved subjects. The general structure of the remote training system includes 4 channels and 2 levels of information interaction (the direct and feedback of the first and second levels are researched): the first level (the channel of encapsulation of knowledge and the channel of analysis of condition), the second level (the channel of representation of knowledge and the channel of identification of condition).