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## PROJECT METHOD AT ESTABLISHING INFORMATION CULTURE IN FUTURE IT TEACHERS

*In order to improve the preparation system of future IT teachers it is necessary, based on the conception that one of the main target of school education today, to train students to instant perception and working out the large extent of information, equip them with modern work facilities and technologies and establish information culture in them. Every teacher should deal with it, especially the teacher of information technology. Future IT teacher should realize his role which he can take in forming the individuality of a student, the individuality of information civilization. A graduate of Pedagogical higher education institution should be ready to use the facilities provided by new information technologies, in teaching, education and improvement of students. In order to form students' working skills with new information technologies, first of all the teacher should have such skills himself.*

Conference participant

According to B.S. Gershunsky's researches, skills are mostly fully formed in activity, [1] namely the activity approach is the most perspective in forming new information technology using skills in professional activity. Practice of arranging students' self-guided work in the form of project activity using ICT means has well-approved itself at forming the information culture.

Method of projects is organization of training during which students acquire knowledge at the course of planning and performing practical project-tasks. Under this project we will understand that the works of computer electronic visual aids done by a student or a group of students are of teaching character. The method of projects will be efficient to start to use after conducting methodological and special range of disciplines with students.

Future IT teachers should have the developed knowledge in the field of the technique of teaching information science, to possess good programming skills, abilities to use a wide range of software which can be used while designing, test implementing and project debugging.

First of all it is necessary to charge future IT teachers with challenging tasks, gradually start from creating slide lectures and supervising and testing software tools to creating pedagogical software tools of educational purpose and more difficult computer training programs and preferably to involve group of students to work over them. Working on creation, designing, approbation of the software of training character created independently forms at an IT teacher the skills of creating and use of these means and helps to learn the main point and the logic of work of the training program in depth, also helps to understand and learn more about the classification of software tools and to study every nuances of their applications.

The analysis and discussion of meth-

odological features of already created and adopted in educational process electronic textbooks, educational sites or pedagogical software of educational purpose, and also the programs created by students allows to track all process previous creation of this or other computer pedagogical means, allows students to see all advantages or disadvantages of the software product.

Demonstration and presentation of the projects created by students encourage future IT teachers to use and expand the use of new information technologies. Working on projects allows them to improve the information culture, consolidate the programming skills and work with a wide class of applied software, improves developer's creativity as in term of writing program working script as in term of mounting the design of program considering ergonomics requirements.

Writing scripts of educational programs favors the development and consolidation of the knowledge of methodological teaching peculiarities, integrally systemizes the knowledge of psycho-educational teaching peculiarities, perception and learning the material presented in the computer training program.

At Atyrau state university to effectively establish the ability of students of physic-mathematical faculties with the specialty "Information technology" to create and use the new information technology of training and training software tools during the lessons of the discipline «Methods and techniques of teaching information technology» were used the following project tasks: writing methodological study aid of the lesson using educational programming tools and using the new information technology; getting familiar with various types of electronic educational resources and with the method of using them in the course of learning according to the subject; developing the methodological approaches involv-

ing students in different kinds of educational activity within a subject on the basis of the organization of activity of development and use of computer training programs; developing educational multimedia presentations; creating educational video files; creating educational animations; designing electronic learning aids with multimedia elements; on the course of which students get necessary theoretical and practical materials; make up practical tasks and tests for intermediate and final control; develop an on-screen presentation; prepare methodological recommendations for teachers; make the design of visual aids and perform it in one of the selected fields; create electronic learning pack on studying course themes, including hourly arrangement, theoretical and practical, additional and historical information; create methodological recommendations for conducting a lesson; practical tasks and tests, write research papers and essays; participate in conferences, competitions, do scientific-research works.

Examples of some project activity forms: web-site, a video film, a thematic exhibition, a presentation, collection, a newspaper, a pamphlet, training or improving games, a model, multimedia product, aids for decorating IT rooms, an electronic dictionary or a guidebook, teaching aids etc.

Wide use of the practice of arranging students' self-guided work in the form of project activity using the means of computer technology has approved itself as the form of active learning, as a reliable mean of enhancing IT teacher's information culture. Method of projects improves the effectiveness of University education, establishes professional skills in using new information technologies at study.

### References:

1. B.S. Gershunskii. Computerization in the sphere of education: problems and prospective. -M.: Pedagogics, 1987.-264p.