

METHODOLOGY OF USING TELECOMMUNICATION STUDY PROJECTS IN INDEPENDENT EDUCATION

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ABSTRACT

The article highlights the essence and content of educational telecommunication projects, and the requirements for the effective organization of telecommunication projects in the field of pedagogy are based on. The procedure for organizing the defense of the educational project and external evaluation is presented. “Safety techniques in the use of information and communication system technical means” from the subject of “Labor protection and safety techniques” are based on the purpose, design and activity tasks and pedagogical tasks of the educational project of telecommunications. The typology and stages of the educational project have been developed.

Keywords: project method, telecommunications, educational project, information technology, system, project typology, stages.

INTRODUCTION

Telecommunication is a tool that provides information transmission and rapid exchange. This is very important for the modern education process. On the basis of this project, an opportunity will be created to teach young people to understand each other, to respect the opinion of others, to express their opinion freely and to solve problems together. As a result, on the basis of the project, the field of international unified education will be entered. Telecommunication projects appeared in the 80s of the last century and were used as a convenient and fast way of communication in the fields of science and education. International experiences show that compared to simple correspondence-based telecommunication projects, specially organized and purpose-oriented projects, cooperation of students on the Internet lead to a great pedagogical result. Educational telecommunication projects are the main form of organizing joint

educational activities of students of different cities, regions and countries in the network [1].

RESEARCH METHODS

Analysis of literature, mass media, Internet data, labor protection laws, standards, analysis of existing safety measures and problems, analysis of collected data, social survey and processing of received information.

RESEARCH RESULTS AND DISCUSSIONS

Educational telecommunication projects are educational, research, creative, scientific and playful activities of students-partners, organized on the basis of computer telecommunications, having a common problem, goal, agreed methods and methods of activity, directed to achieving a common result of the activity. Problem solving in any project requires integrated knowledge. A telecommunication project, especially international projects, requires a deeper integration of knowledge, not only the field of scientific knowledge related to the researched problem, but also the characteristics of the partner's national culture, his knowledge and understanding of the world, and his views. This constitutes the culture of dialogue [2].

In order to effectively organize telecommunication projects in the field of pedagogy, it is necessary to take into account the following [3]:

- multiple, systematic, one-time or long-term observation of natural, physical, social and other phenomena to solve the given problem, collecting data from different regions;
- comparative study, making decisions and developing proposals to determine the exact trend of events, evidence, events occurring in different places;
- to compare and study the effectiveness of ways (alternative or different methods) of solving a problem or issue, taking into account the differences between the cultural, ethnic, geographical conditions of the project participants;
- comparative analysis of social and cultural views, taking into account specific cultural, traditional, religious features;
- to develop a creative idea (practical, creative, scientific, etc.) under the condition of jointly researching a specific problem;
- to conduct interesting adventure computer games and competitions and focus on the problem situations that arise in connection with cultural, educational traditions, and the field of sports.

Organization of telecommunication projects requires a certain level of preparation. In this project, it is required to coordinate the activities of students from both sides by teachers. It is also important to introduce partners here. For this purpose, the project participants can send short information about themselves together with their photos so that partners on the site can get acquainted. Because knowing the interests of

partners and with whom they work in general plays an important role in such communication [4].

Defense of the project is organized first during the training in each partner educational institution, and then in the forum or by placing the presentation materials on the website of one of the educational institutions. Partners can ask questions on the provided materials in the forum and receive relevant answers [5].

We will develop the technology of organizing a telecommunications educational project on the topic "Safety techniques in the use of information communication technical means" [6,7,8].

In the organization of educational telecommunication projects, the topic, goals and tasks of the educational project are determined first.

Topic: "Security techniques in the use of information communication technical means"

Study subject: Labor protection and safety techniques

The purpose of the project: to develop a classification of dangerous and harmful factors in the use of information and communication system technical means, to determine their permissible normative amounts, to develop measures to protect against dangerous and harmful factors, and to study and analyze the ergonomic requirements for the rooms where computers are installed, and to recommend their own ideas for providing safety equipment [9].

Tasks of project activities [10]:

1. To substantiate the relevance and importance of security techniques in the use of ICT technical means with concrete evidence.
2. Identifying dangerous and harmful factors that occur in ICT technical means and creating their classification.
3. Assessment of the degree of impact of dangerous and harmful factors on human health and work ability, their consequences.
4. Trying to find and justify ways to ensure safety and eliminate factors affecting human health.

Pedagogical tasks [11]:

- Formation of professional competence in the use of ICT.;
- to develop the ability to listen and respect the opinion of others by working in groups and analyzing the problem, forming general cultural and social competence;
- formation of general professional competence by collecting data, conducting social surveys and processing them;
- to teach students to self-development, improvement and self-evaluation, and reflection by independent work at all stages of the project, making decisions on the problem.

Research problem: dangerous and harmful factors that occur in IT technical means, their impact on human health, a set of measures to eliminate the level of impact, problems of interrelationship between the wide development of ICT and human health and work ability [12].

Project type: educational telecommunications information project

Deadline: September, 2023.

The presentation is initially held in a group with the participation of the teacher and external experts. Then it is organized together with a partner (in the framework of higher education institutions of Kashkadarya and Surkhandarya regions) on the forum or by posting information on the website of higher education institutions.

During the presentation, partners can ask questions and get answers about the conclusions made about the problem and its solution [13].

To evaluate the results of problem solving, the external expert structure consists of other teachers in this subject, qualified experts in the field and parents, and is carried out on the basis of distance education [14].

Development of educational project typology

№	Typological index	Content
1.	Project type	Educational telecommunication information project
2.	Outstanding activity in the project	Research-creative
3.	Science content area	monoproject (within one field of knowledge)
4.	Communication method	in the process of project activity, direct communication
5.	The nature of project coordination	direct, flexible
6.	Communication character	in a group, within several higher education institutions
7.	Number of project participants	Group
8.	Project duration	short-term (for a few sessions)
9.	Type of coordination	Open and clearly coordinated

Determining project milestones

№	Type of work to be performed	Executive	Type of training or communication	Used pedagogical technology
1.	Presentation of the topic and creation of a problem situation, formulation of the problem	teacher	lecture	"Brainstorming"
2.	Divide the group into small groups and define the functional task of each group	teacher	practical	Working in small groups, discussion
3.	Discussion of sources of information	students	practical	Debate
4.	Work on the project problem in small groups, collect information	students	Practical, extracurricular	Discussion
5.	Analytical and statistical processing of collected data	students	Practical, extracurricular	A debate is a debate
6.	Joint discussion of the problem and the materials collected on it	participants of the educational project	Outside of class	Forum or chat
7.	Discussion of materials sent via chat	students	practical	Debate
8.	Forming decisions on problem solving	Students, initially in small groups	practical	Discussion
9.	Summarize decisions on the problem	By group	practical	Discussion
10.	Open training, project defense, presentation	students	Outside of class	Forum or chat
11.	External evaluation of the presentation	External experts	After the presentation	Based on the evaluation criteria

CONCLUSION

In conclusion, the method of projects belongs to high pedagogical technologies and it requires a lot of preparation from both the teacher and the student, serious coordination of the student in all educational activities. At the same time, the method of projects helps the student to develop intellectually, to form critical and creative thoughts. Such systematic cooperative activity leads not only to the formation of independence in young people, but also to increased responsibility for their own work and group activities. Therefore, the method of projects can be considered as one of the most effective methods in the field of education that meets the requirements of the modern educational system.

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