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Information Communication and its Role in Pedagogical Communication and Cooperation

Olha Oseredchuk

Ivan Franko National University of Lviv, Lviv, Ukraine

Lidiia Hloba

Uzhhorod Institute of Culture and Arts, Uzhhorod, Ukraine

Fedir Apshay

Uzhhorod Institute of Culture and Arts, Uzhhorod, Ukraine

Oksana Shyp

Uzhhorod Institute of Culture and Arts, Uzhhorod, Ukraine

Nataliia M. Andriiv

Uzhhorod Institute of Culture and Arts, Uzhhorod, Ukraine

Abstract--The purpose of the article is to develop a model of the organization of information communications within the pedagogical process. The leading method for the study of this problem was testing developed by M.V. Matyukhina to study the motivational component of students with the identification of its main parameters, which allow us to determine the parameters for creating conditions to improve the educational process and increase the interest of students to it. The identified indicators while using technical equipment have allowed the creation of a model of organization of the development of information communications to significantly deepen and improve the educational process in the pedagogical environment by including a friendly form of communication at the level of different universities, schools with the establishment of international relations, which will facilitate the exchange of knowledge and experience, and create conditions to improve the intellectual and cultural sphere through classes and lectures by teachers from different countries, as well as joint holding and dialogue of subject classes of appropriate age group of schoolchildren and students with their peers from other countries based on online inclusion on the blackboard-size TV screen, which will create an environment presence and has good technical characteristics.

Keywords---exchange experience, motivation, practical education, sociability, study subjects.

Introduction

The development of the technological component of life shows new opportunities that open up boundaries for the habitual perception of the educational process (Akanbi et al., 2020). Modern trends indicate the need to improve the approach to the pedagogical component of education at various levels to create conditions that will produce students prepared for modern living conditions at a high level for their continued active life in the social aspect and manifest themselves in areas of interest at the world level of knowledge, which will show gradations of personal development of a highly cultured personality with great potential for implementation at the level of trends in improving the well-being of the population (Adindu, 2020). The necessary form of improving education under consideration should differ from the current form of knowledge delivery, which has already been introduced into the educational process in all possible variations (Morgan, 2019). At the same time, there are different educational organizations all over the world, each of which has achievements in various fields, and high-level specialists on each subject with an individual method of teaching, which allows conveying the specifics of the subject in an effective and motivating tone, that reveals the features of successful study with the creation of skills acquisition that will help the talents of students to be realized (Mallik, 2020).

The existing successful models of the educational process deserve to be developed at the level of their cognition in other institutions, but since the process of training and implementation at a large-scale level is very long and has many difficulties, keeping in mind the possibilities of modern technologies, it is possible to create conditions of remote presence at various classes and lectures, including atmospheric cultural and informational events that will allow the individual to develop at a high and decent level with the development of their intellectual, cognitive, cultural and aesthetic properties. Also, this form involves being of students in the natural foreign language environment, which will help to improve the skill in speaking at the international level of language acquisition and will create a motivational interest in independent, deeper study of it (Ferguson, 2019). The considered communication process will allow, at a progressive level, from a different consideration of the specifics of the process, both in the study of the subject, and in the exchange of experience, and pedagogical cooperation, and increase the motivational component of students to attend school, as well as the development of their independent learning activities, which will allow them to learn the material on the example of not only a profile teacher but also international experience. It will also increase interest in studying it with an understanding of high-tech trends in its development in different countries and the whole world (Kaurav et al., 2020).

In addition, international cooperation using modern technology will expand the boundaries of the lesson, will bring into it factors that will be impossible within the framework of one school and one teacher, creating an atmosphere of live communications, which are an important part of everyone's life (Kaldybekova &

[Beykitova, 2019](#)). The introduction of information communications into the field of education, taking into account the international level, will significantly expand the boundaries of the worldview of students, educating them cultural, favorably attuned to social personality communication, and it is also important to remember about the methodological component, which will significantly increase from this form of consideration of classes, lessons and lectures, which has become possible at the current stage due to technological developments.

Materials and Methods

The basis of the study was conducted diagnostic testing methods to identify the main factors affecting the communicative sphere according to M.V. Matyukhina research, which allows to formulate and highlight aspects related to personal motivational spheres affecting the social sphere, and including such properties as a sense of duty, responsibility, striving for self-realization and personal perception based on self-determination of their role in life with benefits close to social active life. The chosen test will allow us to talk about personal qualities, where the desire of the subject to improve their life, well-being, success, propensity to acquire new, useful knowledge will be traced, as well as to identify the level of perception of life-based on the attitude of the individual to creative behavior, which carries the maintenance of peaceful situations, both on the internal and on the external backgrounds, which is relevant for the modern world and the preservation of the well-being of society ([Herianto, 2017](#); [Zu, 2021](#); [Rinartha et al., 2018](#)).

The research-based on this method takes place in three stages. At the first stage, a student from a group of university students selected for the study should distribute the cards with questions into groups of similar meaning, depending on personal importance. At the second stage, the student selects the most important statements from these cards, which allows us to identify motivating elements for improving communication skills. At the third stage, there is a study of the attitude to the educational process, the acquisition of new knowledge, the impact on the development of interest in learning, which will allow us to identify parameters to strengthen the function of the engaging cognitive process on the personal perception of students.

After the testing, the results obtained were calculated. When calculating the data we used ready-made keys, as part of identifying the level of motivation to complete the educational process, such as high, medium and low motivation. Also, detailed analysis allowed us to determine the main parameters for the formation of a motivational component that encourages interest in learning to improve successful communications. When calculating the overall results of the study, the standard method of mathematical calculation and graphical representation of the results was used. The pedagogical experiment was conducted based on the National Pedagogical Drahomanov University, Kiev, Ukraine. The diagnostic test was conducted among 120 first-fourth-year students, aged from 19 to 25 years ([Gillies & Boyle, 2008](#); [Annan-Diab & Molinari, 2017](#)).

This problem was investigated in three stages. At the first stage we conducted a theoretical analytical study of the available research and methodological literature

on the problem under study as part of developing a model of information and communication cooperation, the exchange of pedagogical and methodological experience using modern technologies at all levels of practical education. In the course of this work, the existing problem, the main goal were identified, research methods were selected and an work plan was developed. At the second stage, diagnostic testing of students and the basic part of this experimental work were carried out with a detailed analysis of the results and formulation of conclusions. At the final third stage, the data were verified and the conclusions were clarified, as well as the systematized results obtained (Lukiianchuk A et al., 2021; Smyrnova et al., 2021).

Results and Discussion

When processing the results of the pedagogical experiment, we used a system-active approach. It allowed us to form parameters for developing a model for organizing information cooperation that increases the quality of the educational process and improves the methodological foundations of delivering knowledge at a successful level that increases motivation to study various subjects and disciplines, as well as allowing us to create conditions to enhance personal behavior in the classroom and independent work in the in-depth study of subjects. In this work, personal requests of students were taken into account, which were highlighted during the study, and which were laid as dominant in determining the effectiveness of the educational process and the formation of a student's cultural personality when comparing with the analysis of psychological and pedagogical foundations (Widayati et al., 2019).

The form of delivering knowledge taking into account a personal approach based on the use of a qualitative and professional level in the perception of knowledge with the possibility of exchanging experience and using the best criteria already existing in the pedagogy of practical education at the world level, which, within the framework of the use of innovative technologies and engineering support at the modern level allows you to create commutative connections with the exchange of experience and information on a high professional background, regardless of the territorial location of classrooms at any convenient time on good, high technological support, which will contribute to the preservation of the health of students, including their visual function with the effect of presence when using media tools, for example, as a blackboard-size TV screen. This form will allow students, schoolchildren, specialists who upgrade their professional level or, when undergoing retraining, to perceive with interest the material submitted to them at a high-quality level by various specialists from other countries who are high professionals in their field with the features of a successful methodological approach in the framework of presenting the knowledge to both students and teaching staff, who at this time will learn from their colleagues, including foreign ones (Sawant & Sankpal, 2021). This teaching method is based on the volume of completeness and depth of information and its gradual assimilation with the accompanying active participation of students in various classes in different disciplines, which, with at the created motivating emotional atmosphere with positive cognitive and exciting elements, will create conditions for them to show increased active cognitive interest in the study, and to manifest themselves at an active level with the activation of the thought process, taking into account

effective methodological prerequisites, with the level of representation and consciousness of the importance of the model of knowledge delivered to them, including for professional improvement, and the exchange of pedagogical experience (Jha & Parvati, 2020).

The considered level of information cooperation enhances the professionalism of teachers, which will improve their future professional activities, where the scope of application of the knowledge that they received during the exchange of experience upon interaction with colleagues from different countries will be determined for the future application of this knowledge at a high level of teaching in their field during their classes, both theoretical and practical (Kalyani, 2020). Most of the studied disciplines have in their structure an extensive part of the practical application of important components for life, therefore, such pedagogical interaction can be expanded at the level of including live broadcast based on the demonstration and lecture part from real production, factories, forestry, as well as dialogue in the form of interviews with managers and highly qualified specialists in their field in the framework of studying the topic in the classroom, where students of ordinary classes of schools and faculties of the university will be able to ask questions, and conduct a free dialogue with clarifications and observations when communicating with these representatives, who on the basis of presenting information and answering to students, both their teachers and accompanying persons within the framework of health and environmental conservation, which is dictated by the relevance of modern education at the theoretical and practical level, will be able to effectively and successfully develop their communication skills and receive up-to-date practical information on various subjects (Tilak, 2019).

Such knowledge in the presented form, taking into account the deep personal perception that will be created as a result of the conditions described above, allows school students and students to acquire practical skills of the subject with the direction of its application in practice, and so this structure needs to initially teach students in such a way that they would form an environmentally oriented view of the application of knowledge in various fields and disciplines, which will allow them to apply them at a high level in the future and taking into account the preservation of ecology, and well-being for society and nature (Morgan, 2019). Also for gaining experience share and practical relevance during the broadcast, and communication with representatives of different spheres, including production, but with a level of technical capabilities and management, when the student begins to realize examples of the application described in textbooks and studied in the framework of lectures at the experimental level, which will create conditions for expanding their independence in actions within the discipline, will teach them the analysis of causality, which will strengthen and create a complete picture of the application of various existing patterns and knowledge when presenting information from the practical component already active, introduced into the sphere of production or management, administration of work on them based on a ready-made created model for its practical application with further gradual deepening into various interactions that allow this model to exist at a practical level, and it is also important to remember that the created model should carry an image corresponding to modern categories and requirements from the side of environmental and health preservation (Tilak, 2019).

The considered variant of information cooperation will allow students to identify professional prerequisites, talents, interests for future activities, which is of great importance for the field of education, solving one of its main tasks within the framework of professional orientation of students at the school stage (Devi, 2020). The organization model should also include joint lectures with colleagues from different countries studying at the same universities, in the same or related specialties, or in the same educational classes in schools from the whole world, which will create conditions not only for the development of communication, and the exchange of effective practical and theoretical experience, as well as methodological foundations for the presentation of knowledge but also for deepening their study of English and the factor of strengthening, increasing tolerance to people of different faiths and nationalities, which plays an important role in the current aspect of the globalization of the world. Thus, the proposed model, considered within the framework of the results obtained during the study, which will contribute to solving the important issue of globalization and socialization of the younger generation and future professionals in their fields of activity in the framework of future work, which will have a beneficial effect on the development of the well-being of society as a whole (Chandra & Murugan, 2017). Consequently, the foregoing on the totality of the components described above, when considered holistically reveal the process of forming a model for organizing information communications within the pedagogical process at all levels of its practical application, including methodological features for organizing successful personal development with the acquisition of practical skills and knowledge in various fields, which will also be accepted as a result of the functioning of the study under consideration based on the developed model of information communication.

The obtained result of the research in the form of a developed model for organizing successful information communication with elements of active cooperation at the international level was introduced into the university in several stages, which included the determination of personal characteristics affecting motivation for studying the subject, which was reflected during a detailed analysis of testing data, as well as pedagogical observation and complete statistical processing of the data obtained during the analysis of the results. The next stage was the development and implementation of the above-described model for communication cooperation in time, which uses new, innovative opportunities of modern technologies in the field of media for its subsequent and successful implementation in the field of practical education at all stages (Lukiianchuk A et al., 2021; Smyrnova et al., 2021).

The study covered 120 students, and as the results of the study showed, most students have an average and low degree of the motivational component to the educational process as a whole (Figure 1).

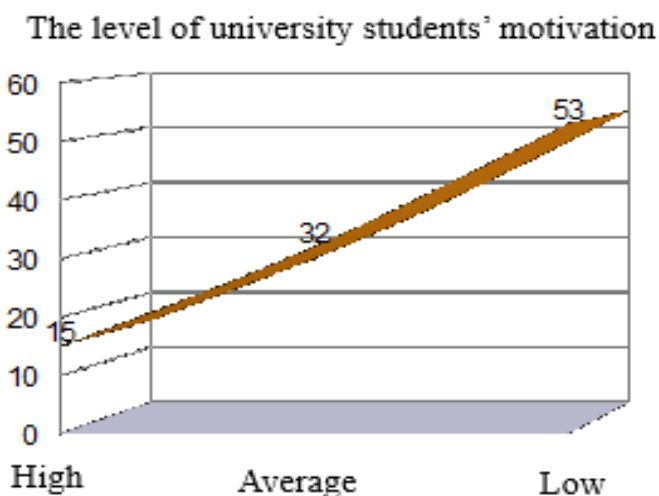


Figure 1. Distribution of students in percentage ratio depending on the level of their motivation to study

Many of the respondents (81.6%) believe that their practical, theoretical and lecture classes are held in an uninteresting form, and they mostly study to get a diploma and be able to get a job offer. Figure 2 shows the data, which indicates the need to improve the learning process to increase motivation to acquire knowledge, which is one of their most important components for the development of information communications (Lazarides et al., 2016; Hanrahan et al., 2018).

Level of satisfaction with lectures among university students

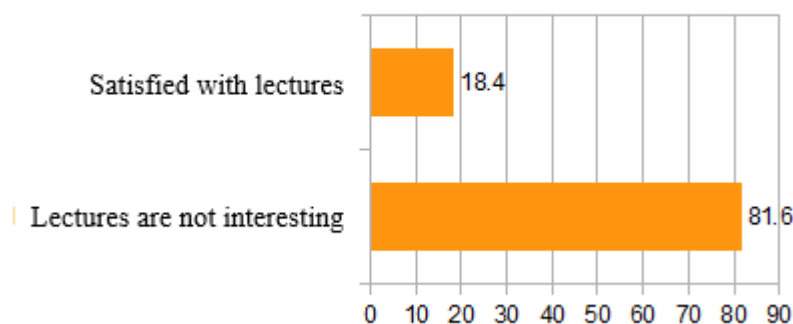


Figure 2. Distribution of students in percentage ratio depending on their perception of lectures

A detailed analysis of the results showed that most of the students studied want to attend classes that they would be interested in, study useful and new information, and understand how the knowledge they acquire can use in life. During the pedagogical supervision and clarification from them, everyone expressed a desire to expand their knowledge and communication when conducting joint classes with students from other countries, as well as listening to lectures by professionals in their field from around the world. It was confirmed

by the data obtained during a detailed analysis, where the parameters corresponding to these facts were determined, which can be seen in Figure 3.

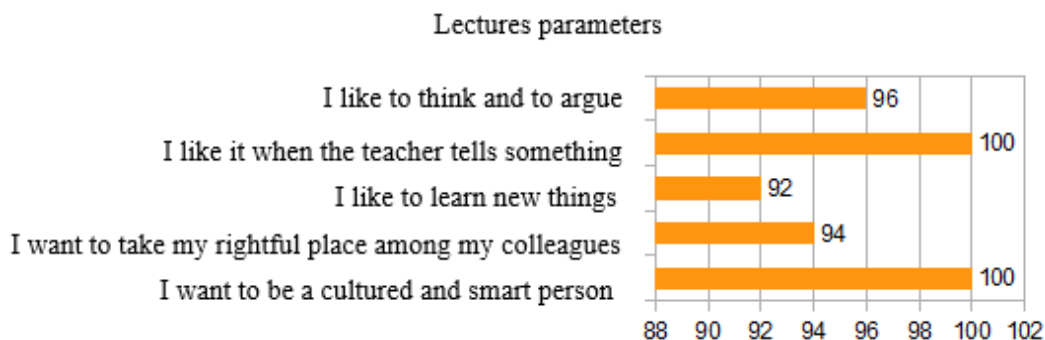


Figure 3. Distribution of students in percentage ratio depending on their wishes in conducting lectures

The processing of the information obtained allows us to talk about the introduction into the system of practical education of factors that would satisfy the needs of students during classes of different orientation, which would create conditions for increasing motivation for conscious active learning activities and the manifestation of their communication skills, which in the framework under consideration would increase at the level of not only the ability to express their thoughts, but also intellectual, cognitive, expanding horizons, creating conditions for being in the language environment of native English speakers, communicating with professional practitioners who have already reached career heights and conduct discussion classes with students, telling and answering their questions on various topics necessary for the well-being of people in the framework of environmental and health conservation, which will carry both a motivational function for the development of a person with an increase in their self-esteem and self-esteem, as well as the necessary form of understanding the practical use of theoretical foundations that take place during the educational process will be realized at the practical level (Häfner et al., 2013; Rovai, 2003; Masrul, 2018). Considering these parameters, we can talk about successful classes in the study of various topics and disciplines, subjects, as well as an international foreign language, especially English, which is of great importance for the development and formation of a cultural, intelligent personality with a formed culture of self-presentation, which the student learns during joint lessons, online discussions, asking clarifying questions with informational comments that will reflect their inner potential and develop active participation in classes with the strengthening of their independent activity, including learning a foreign language, since they will see the zone of its practical application and the benefits of owning it, this is how their information communications will be formed at a high and deep level with the opportunity to practice in them with an interesting and cognitive environment created in a positive psycho-emotional atmosphere (Maruthavanan, 2020).

The revealed data show the importance of correcting the sphere of practical education at all its levels and introducing into the ordinary learning process the use of methods that develop communication skills in students in natural

conditions, without administrative and psychological pressure, based on factors and methods that affect the formation of a value attitude to life and its various spheres with the manifestation of interest in the student's personality, which will form an understanding of their own importance and sense of dignity, and will allow on a positive note to develop the personality psychoemotional and socially with a formed sense of dignity based on respect for personal interests, and in the form of an individual approach with the preservation of the importance of personal needs, which will create conditions for health at the physical and emotional level, and this will contribute to the culture of health preservation (Scherer et al., 2019).

The above approach will allow young people to graduate with a full-fledged status of a worthy member of society, since the considered form of organizing information communication with the exchange of experience and cooperation, taking into account international interaction, will teach them to fully organize their own further independent, including educational activities in the future, as well as the acquired experience will help them realize their professional preferences, which will create conditions for the formation of a personality, taking into account the identification of professional fitness at a high conscious level, which will contribute in the future to their creative behavior in the household and work sphere for the development of the well-being of society as a whole (Kaurav et al., 2020). Thus, the factors of assessing the possibilities and predisposition to the perception of new information, and the subsequent possible self-learning, self-knowledge in certain conditions of practical, theoretical, lecture classes were considered and highlighted to improve communication skills against the background of acquiring information knowledge in various subjects and disciplines, with the maintenance and creation of a very important atmosphere of goodwill and mutual support from teaching staff, and online representatives of various industries for the development of successful educational and cognitive activities, taking into account the creation and formation of a worthy and cultured personality of the student. The correctness of the study was ensured by the fact that the characteristics and these diagnostic parameters and the developed model were comparable in the study correctly (Glotova & Wilhelm, 2014; Peng, 2019).

All this made it possible to develop a model for organizing information communication based on the exchange of experience and with pedagogical cooperation, including conducting classes with the inclusion of a friendly form of communication at the level of different universities, schools with the establishment of international relations, which will contribute to obtaining various knowledge based on the latest developments of international level, as well as the exchange of knowledge and experience, and create conditions for the development of the intellectual and cultural sphere of the student by conducting classes and lectures by competent, talented teachers from different countries, as well as joint online classes of one category of students with communication factors, creating online conversations and inclusions from places of production, and cultural events concerts, holidays, museums and much more, which will deepen knowledge in the topics of study, create a visual experience of using the subjects studied and teach you to conduct a constructive respectful dialogue with representatives of different spheres based on online inclusion on a television

screen of the size of a blackboard, which will create conditions of presence based on good technical characteristics that will allow you to maintain a high level of health preservation among participants of these classes (Krejins et al., 2007; Krauskopf et al., 2012).

At the control stage of the study, where the created form of classes was explained to students and partially put into practice as a pedagogical experiment, positive trends in the development of motivation and interest in learning activities were noted, as shown in Figure 4.

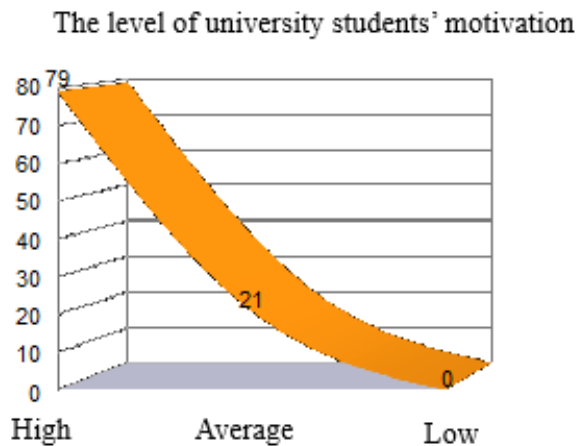


Figure 4. Distribution of students in percentage ratio depending on the level of their motivation to study at the control stage of the experiment

The revealed dynamics data allow us to speak about the effectiveness of the created pedagogical model of conducting various classes in the pedagogical sphere with methodological prerequisites that improve information communication skills among students. It should also be noted that this form will be useful at the practical level and for teachers themselves as part of the exchange of practical teaching experience, the presentation of knowledge in different methodological forms at different levels (Idhalama & Ifidon, 2019). Taking into account the technological development of the modern world and innovative achievements of technical progress, it is necessary to use well-known engineering achievements in the framework of increasing opportunities by improving the educational process in the field of its practical application at its high level, which allows students and teaching staff to maintain health at the physical, psycho-emotional and social levels, which will comply with the norms of modern education in the framework of health and environmental conservation (Amua-Sekyi & Asare, 2016).

Also, according to the research, the developed model allows you to form motivation at a high level in both students and teachers, due to the appearance of their interest in the subjects taught to them in the form described above, which in fact are in aggregate, and within their interest, therefore they perceive it with a positive response, especially in the framework of international communication with peers, which expands their boundaries of knowledge of the world and the lives of the same students as they are in the presented age categories, which

allows them to establish personal communication with them, and acquire friends for texting, which will also contribute to the formation of a high level of communication and create conditions for active, including self-study of the English language. The advantages of the developed form are live communication, perception of live speech in the present tense, the possibility of conducting an intellectually friendly dialogue (Doyle, 2019). The implementation of the developed model of information communication organization carries an experimental and comparative analysis for the education sector as a whole, which will contribute to improving its structure at all levels as a result of a system-analytical approach and structured successful experience of colleagues, which has practical importance for the entire sphere of the educational environment (Sarfo et al., 2016).

The knowledge of different subjects with the application of the developed model using the effective methodological prerequisites colleagues will form in students a high level of mental activity and create conditions for the development of intelligence in the framework of health and environmental conservation in the application of criteria that reflect value characteristics as motivational, cognitive-communicative, cultural and aesthetic, which were considered in the development of the model, which will allow educating during the educational process a worthy person with inherent value motivational parameters, which they will be able to use in the future in their professional activities for the benefit of society (Oyedokun et al., 2018). Thus, the developed model of information communication organization has proved to be effective and can be used in practice to improve teaching in various subjects and disciplines at all levels of education, as well as to activate independent activity and acquire practical communication skills, taking into account the study of a foreign language, including, which is important for the entire field of education.

Conclusion

Given the engineering process, the use of innovative technologies can significantly improve the educational process of expanding its capabilities for the conducting of the necessary information, as well as for productive, mutually beneficial pedagogical cooperation among colleagues in different countries for a significant increase in the motivational component of students' identifying personal factors influencing the development of cognitive interest, which are the basis of the success of the learning process and knowledge of the informational component of various items and subjects to create a better perception of information, and appreciation of its application in practice, that will allow you to create the apparent relevance of knowledge taught in the context of learning in an educational institution, and so we developed a model of organization for successful development of information communications at a high level for improving the educational process due to the joint communication of the communication and exchange of experience on the level of the online training format, different forms teachers, and a variety of highly qualified specialists of different educational institutions with regard to international cooperation on the level of application of business relations in teaching and learning environments that will contribute to the successful cooperation for the exchange of knowledge and experienced part of the educational categories of information content in

different spheres of life and of the study subjects, as well as to create conditions for improving the pedagogical skills of teachers and the development of mental activity, intellectual and cultural development of students' personality on the level of acquisition of communication skills through lessons and lectures by professors from different countries, joint sessions with students of the same age category with other universities, schools from different continents, and discussions of practical applications of the study of knowledge-based applications enable online on the example of the teleconference, with visualization of it on the blackboard-size TV screen, which will contribute to creating the conditions of a real presence. The materials of this article are useful for education workers at all levels, teachers, methodologists and can be applied in practice, which will contribute to solving important tasks in the field of education.

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