

# Chapter 91

## The Modern Problem of Psychological and Pedagogical Foundations of Russian E-Learning Systems: The Possible Solutions and the Future Challenges of Psychology and Pedagogy

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### **ABSTRACT**

*The chapter draws attention to the psychological and psycho-pedagogical aspects of the use of information technology in education. In this regard, the core aspects are considered. Much attention is paid to such research as the study of the effect of distance learning on cognitive and personal development of students; development of subjectivity university students; psychological and cognitive barriers in distance learning. It is emphasized that only a small number of universities in the Russian Federation has assumed responsibility to engage in learning disability issues. The main difficulty is to teach students with disabilities. This chapter provides annotation project of the Ministry of Education and Science of the Russian Federation “Development and testing of models of teaching and methodical center providing higher education for disabled persons and persons with disabilities with a variety of Diseases”. As part of this project there will be the implementation of a program of networking for students with disabilities in the format of the Consortium. The main objective of the Consortium is to describe the principles of networking schools, considered as a possible model of networking schools and Interpretation of the basic steps of creating intercollegiate information and educational network of universities.*

DOI: 10.4018/978-1-5225-0034-6.ch091

## INTRODUCTION

In modern conditions the labor market imposes higher requirements for specialists with higher education and their competitiveness. To prepare such specialist attention should be focused on new standards of higher education based on competence approach and involves the formation of a number of the students' general cultural and professional competences. This places new demands on both the learning process and to the students themselves. For successful learning, in addition to cognitive abilities, increases the importance of qualities such as responsibility, self-reliance, self-discipline (which is associated with an increase in the volume of students' independent work), communication skills, and the role of motivation. Emphasize the need for the formation and development of the qualities that will help the young man to find his place, to be successful in their chosen profession, develop and improve. The new standard of higher education in Russia as one of the general cultural competences allocated capacity for self-development, improve their skills and craftsmanship. The development potential of the individual is the principle of the modern paradigm of the educational system. In this context, issues related to self-development and self-actualization in the student's age, are of particular relevance. To solve this problem new approaches are needed (Mkrttchian, 2013).

At present, the world is making an important transition from an industrial to a postindustrial society milestone that marks a major historical transition, and is referred to as the century of information technologies and systems.

Today is a very rapidly developing information technology. Information and communication technologies (ICTs) are being actively implemented in all areas of human activity. They certainly affect such a wide scope of social activities, such as education. In the information society is changing the paradigm of education. These changes are associated with the open information access much of the population of developed countries. Great importance in these changes is given to personal characteristics, which affect the attainment of a certain social status. Thanks to the active development of new telecommunications and information technology, we are having a qualitatively new condition of work with the information in the educational system. One of the most important areas of development and use of new ICT technologies become distance learning. In this regard, first of all, let's look at some of the essential characteristics of distance learning.

Trends in the development of modern society are characterized by an increasing importance of knowledge, education and information, which are necessary to foster each individual's personality and, as a consequence, the successful development of society as a whole.

However, the lack of the necessary conditions for full participation in the educational process of students with disabilities to meet the individual needs and capabilities, as well as the use of insufficiently effective teaching methods lead to the fact that the majority of people in this category cannot get a good education, profession and prepare for life in society. Currently, the number of people with disabilities in Russia, according to various sources, more than 12 million people, of which more than one million - young people up to 18 years. Despite numerous efforts undertaken by the State and society for the prevention of disability and the preservation of health, there is a tendency to increase the number of disabled people of all categories, including children with disabilities. Therefore, increasing the urgency of solving the problem of empowerment and accessibility for people with disabilities is to receive vocational training in popular specialties and directions. It is the unavailability of receiving good education - one of the main reasons preventing the inclusion of people with disabilities in the life of modern society.

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