ANALYSIS OF FOREIGN STUDIES ON THE DEVELOPMENT OF RESEARCH COMPETENCIES IN STUDENTS DURING THE ACADEMIC EDUCATION PROCESS

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Abstract

This article aims to develop research competence based on an effective pedagogical approach that is appropriate for the developmental needs and cognitive processes of students. It provides information on what competencies a learner should have in the digital and big information age, as well as valuable insights from several educational theories about the dynamics of learning and the development of research skills.

Keywords: Axiological, socio-legal, substantive, methodological and technological, communicative, analytical management, project research, professional and pedagogical competencies.

Introduction

The rapid development of science and technology in the world, the changes associated with the adoption of innovative technologies, are causing new socio-economic, political and cultural changes. Such changes, in the context of globalization, create a strong competitive environment in all areas, which in turn impose new requirements on the education sector. As a result, it is becoming increasingly important to improve the effectiveness of education and assessment of results at all stages of education, which is valued as the most unique capital, and to create opportunities for all people to receive quality education throughout their lives by improving teaching methods.

Today's education system is moving away from old-fashioned curricula and towards a system that prepares people for the innovative digital economy and information society. Accordingly, approaches to education are changing, and thanks to the Internet and information technologies, teachers are transforming from simple knowledge providers into educational organizers. For some teachers, such

a change will not be easy. Since competitiveness and the ability to establish interpersonal relationships are necessary in such an era, the content of curricula should be aimed at developing critical thinking, communication, creativity, and collaboration skills, that is, competencies.

Educational transformation is a process of profound change in the main aspects of the education system, including curricula, teaching methodologies, assessment methods, and the structure of educational institutions. The main stages of the transformation process are:

1. Needs assessment - identifying the changing needs of society and the skills students need for their future success.

2. Goal setting - setting specific goals and outcomes that the transformation is intended to achieve, such as improving student achievement, ensuring equity, or encouraging innovation and creativity.

3. Program development - developing new or revised programs to achieve the goals, including curricula, teaching methodologies, and assessment methods.

4. Teacher training - preparing teachers to implement new programs and teach students 21st century competencies.

5. Infrastructure creation - creating the necessary infrastructure and resources, such as technology, learning materials, and facilities, to support the transformation.

6. Monitoring and evaluation - creating systems to track and evaluate the effectiveness of the transformation and make adjustments as necessary.

It is worth noting that in our country, in order to improve the quality of education and develop social society, the need for human capital has increased significantly, and the education system is undergoing rapid changes under the influence of technical, technological and industrial development. It is expected that in 2030, an active pedagogical and organizational-technological transformation will take place in the education system. This process will take the following form:

- teaching methodology and educational process are individual for each student;

- an excellent mechanism for mastering art, creativity and artificial intelligence in education is in practice;

- foreign languages, computer literacy, programs and textbooks are introduced;

- talented students are identified using the "online Olympiad and artificial intelligence", transparency is ensured at all stages of the competition;

- the spiritual, moral and intellectual development of young people has been raised to a new level. Innovative forms and methods of education have been introduced into the educational process;

- the content of the education system is constantly changing, variable and intensive training programs are in practice, and personnel training is carried out online.

At a time when globalization is taking place, the Internet and artificial intelligence technologies are rapidly entering, and pedagogical and technological transformations are taking place in education: What should be the professional qualities and competencies of a teacher, the digital portrait of students, and in particular the educational process? In the past, older, more experienced people were more knowledgeable and experienced than young people. In the digital era, the situation may be the opposite, that is, "Digital youth" may have competencies that allow them to think faster and process more information than analog "Teachers" and "parents". The modern educational process should respond adequately and appropriately to the requirements of the individual, family, professional community, business, and the state. Only a graduate of an education system that meets these conditions can achieve success in independent life. Large corporations that produce equipment and technology are rapidly creating new jobs, and the need for workers who think creatively and non-standardly is increasing. The biggest problem in the education system is to fill the gap between the levels of development and education. In the digital and large-scale information age, what competencies does a student need to have to be successful and entrepreneurial? Educating a student with the competencies and characteristics listed in the traditional education system is a very difficult task. In order to fulfill this complex task, it is necessary to organize an educational and training process that focuses on research.

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