

The Impact of Modern Education Systems on Young People's Self-Organization

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Annotation

Our President has highlighted the unprecedented changes taking place in the education sector of a renewed Uzbekistan, encompassing pre-school education, school education, secondary and higher education systems, and scientific research institutions. These changes necessitate a transformation of the science and education system, aiming to generate modern knowledge. The traditional education system has failed to meet the criteria of modern social development. As a result, the old structure of the education system is gradually being dismantled, and the process of establishing a new structure is underway.

However, even after the formation of the new structure, elements within the education system may not immediately function effectively. Resolving the conflict between elements and structure will elevate the social system to a new qualitative level. This requires interconnectivity and interdependence among the elements within the system. Therefore, how can we ensure new interconnectivity and interdependence within the modern education system? What is required to achieve the efficiency of the educational system functioning as a complex system? The President recognized the urgent nature of this problem, its relevance to the development of every nation. He emphasized that "in today's complex world, where competition is intensifying on a global scale, modernizing and renewing our country based on scientific achievements and advanced technologies is our crucial task." Indeed, the education system is the most important instrument for transmitting knowledge, culture, skills, and mentality to young generations. Young people, having acquired the knowledge available in society through the levels of the education system, become active social participants.

Therefore, methodological change holds significant importance in the

transformation of the education system. It is crucial to emphasize that methodological transformation in education assumes significant epistemological and social importance in an era of increasing digitalization, informatization, and complexity.

Developing an interdisciplinary approach in modern science and education would pave the way for training leading specialists in our country. We believe that transmitting knowledge and training specialists based on an interdisciplinary approach will elevate the education system to a new qualitative level.

What is an interdisciplinary approach? An interdisciplinary approach involves applying methods and techniques from one discipline to another.

An interdisciplinary approach does not merge disciplines but, rather, through their interaction, enriches both the content and methodology of each discipline. Moreover, this process leads to the formation of new methods, which are often applicable across all fields of knowledge, bringing them closer together and facilitating integration. This, in turn, leads to the formation of heuristic concepts that contribute to scientific progress.

The uniqueness of the interdisciplinary approach lies in its ability to transfer research methods from one discipline to another. For instance, biophysics and economic psychology have emerged as a result of such interdisciplinary research. Today, the rapidly developing modern digital economy demands knowledgeable professionals grounded in an interdisciplinary approach. This can be observed in the changes occurring in professions.

Let's consider examples of professions based on the interdisciplinary approach. For example, in the realm of information technology and journalism, there is increasing emphasis on training "data journalists." Similarly, the integration of psychology and information technology is fueling the growing need for professionals in areas like information and cyber-psychology. Furthermore, the

integration of computer science and linguistics has led to the emergence of the field of computational linguistics.

Therefore, the complex reality we inhabit, the "four interconnected rings" of the Third Renaissance, requires a transformation of the education system. Research shows that training specialists with a broad scope of knowledge, rather than narrow specialists, is a crucial task for education systems worldwide.

Consequently, the modern era demands that we prepare trans-professional specialists. "Trans-fero" in Latin means "to transfer." "Trans-professionality" refers to a practice where an individual not only operates within a single profession but also possesses sufficient knowledge and skills to transition into other professions. Such professionals can independently organize their education levels and fields of study. Trans-professionalism, compared to a profession, is, firstly, an open system that continuously expands with new knowledge and skills. Secondly, trans-professionals are network navigators and creators of innovation. They possess advanced skills in finding and assimilating knowledge within networks. This suggests that trans-professionals are individuals who excel in multiple professions and can readily adapt their careers when necessary. They are able to transfer knowledge and technologies from one profession to another. This results in the creation of new technologies and knowledge.

In conclusion, the interdisciplinary approach methodology in modern education and science holds significant epistemological and social importance for the development of New Uzbekistan. Achieving the objectives outlined in the New Uzbekistan Development Strategy, laying the foundation for the Third Renaissance, and resolving the challenges of the global, mental, cultural, complex political, and creative economy require an increasing demand for young professionals equipped

with professions trained based on the interdisciplinary approach. As our President, Sh.M. Mirziyoyev, emphasized, education must nurture a new generation equipped with the fundamentals of science, modern specializations, and knowledge. We believe that the tasks set out in the New Uzbekistan Strategy to intensify scientific research in promising areas like digital technologies, artificial intelligence, robotics, biotechnology, and nanotechnology will further promote the development of the interdisciplinary approach in education and science in our country. This will create a strong foundation for young people to operate as competitive, socially active individuals equipped with modern knowledge.

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