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FORMING OF COMPETENCE OF FUTURE TEACHERS IN THE CONDITIONS OF MODERN PARADIGM OF PHYSICAL AND MATHEMATICAL EDUCATION

The reforming of education in Ukraine is a part of the process of renewal of education systems, which take place in the last twenty years in European countries and which connected with determining of meaning knowledge as an engine of social welfare and progress. These changes relate to the creation of new educational standards, change of paradigm in education, renewing and revision of curricula, teaching content, teaching materials, books, forms and methods of teaching. Purposeful getting by future physics teacher knowledge, skills and abilities, their transformation in competence promotes the personality cultural development, technology development, the ability to respond quickly to requests of time. The problem of forming the competence of future physics teachers applies to solving tasks, renewing of content of education and its coordination with modern needs, integration to the European and world educational space is orientation of training programs for acquiring key competences and for establishing effective mechanisms for their realization.

Analysis of research works and publications covers researchers of domestic and foreign scientists: the formation and development of competence approach to training of specialists is considered in works of V. Andruschenko, N. Bibik, L. Vashchenko A. Ovcharuk; training of physics teachers – A. Bugaev, C. Velichko, V. Vovkotrub, S. Goncharenko, V. Duschenko, L. Kostenko, G. Kordun, E. Kite, J. Kucheruk, A. Ljashenko, M. Martyniuk, V. Multanovsky, A. Sergeev, I. Tychyna.

The purpose of the article is determined by a complex implementation of methodological works to modernization the content and structure of training of physics teachers in higher pedagogical educational establishment. We propose to consider such process of implementation at the example of training of teachers to teach school topics of physics course.

We conclude that periodic system of elements of D. Mendeleev has a large number of physical properties which create a coherent whole, complement each other. It promotes to forming of interdisciplinary connections during study physics and chemistry. Besides, there have been defined ways of providing of optimal modern presentation of one of the laws of nature in higher educational establishments and forming of qualification skills to their putting in future professional activities.

We believe that our proposed amendments to physics course would improve the training of future specialists in the field of natural sciences. We suggest renewing and updating the new course of physics. Development and improvement of teaching methods of modern questions in physics is the prospect for further research.