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INTERSUBJECT INTEGRATION OF DISCIPLINES OF NATURAL AND MATHEMATICAL CYCLE IN PREPARATION OF SPECIALISTS OF TECHNOLOGICAL DIRECTION

The discrepancy between demand and proposition in the labor market puts in front of high school tasks of preparation of specialists of technical and technological direction, capable to self-realization, intellectually developed with considerable creativity. The orientation on the development of abilities and aptitudes of students, improving their education and professional training, the development of creative thinking requires from high school teachers extraordinary, creative approach to the process of study, improving the content, forms and methods of teaching.

The modern system of higher education is oriented not only to the formation of highly educated, intellectually developed person, but also to the forming the holistic view about external world with understanding of the depth of connections and dependencies of its processes. Integration in education has deep roots and didactic certain historical traditions. One of its historical forms – interdisciplinary integration, which makes it possible to overcome the traditional isolation and separation of one discipline with respect to the other. Taking into account the fact that the problem of integration of subjects in higher education is not sufficiently developed, and taking into account the fact that in modern conditions of scientific integration the important factor of the system forming the content and structure of the subjects are interdisciplinary communication, the problem of there establishing is very actual today.

The problem of interdisciplinary connections has been considered by many famous scientists such as (M. Antonov, M. Danilov, E. Monoszon, I. Ogorodnikov, A. Schmidt, G. Yurkov). The modern state of the research of the problem is considered in works of R. Abbasov, I. Zverev, L. Kulagina, V. Maximova, A. Savchenko, M. Sorokin, S. Tadyyana, V. Fedorova.

The purpose of this article is to identify opportunities for teaching mathematical modeling as a method that implements interdisciplinary integration of natural and mathematical cycle in preparation of specialists of technological direction.

The integration of subjects in modern higher education is a real need of the time as for providing of the formation of a fully developed personality. However, the integration of subjects should not be a mechanical activity in their combining and interpenetration. This process requires significant changes in content, structure of subjects, selection and amplification in these general ideas, theoretical concepts and applied aspects. It should be noted the fact that the implementation of integration must be accompanied by certain conditions, among which we highlight the relationship of academic disciplines, community or

closeness learning objects, unified conceptual and categorical apparatus, the presence of common methods and theoretical concepts of construction. Only under such conditions it is possible the effective implementation of the integrational process in the practice of training as for qualitative training of specialists.