

THE ROLE AND IMPORTANCE OF DISCRETE MATHEMATICS IN THE FORMATION OF INTELLECTUAL COMPETENCIES OF STUDENTS OF IT SPECIALTIES

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ABSTRACT

The most important goal of the mathematical training of future engineers is to teach such mathematical methods, which form the basis of special disciplines, to form the ability to apply these methods in the study of specific technical processes. Studying discrete mathematics should help students develop skills in the development and implementation of algorithms for solving problems, bringing research to the final result. In "continuous" mathematics, as a rule, there are quite understandable answers to the question of why certain concepts are needed (areas and volumes are calculated, systems of equations are solved, etc.). In discrete mathematics, there is a different level of abstraction, and in many cases there is no reliance on familiar intuitive images. Thus, the task arises of creating among students a sense of "usefulness" of the subject. The article discusses the role and importance of discrete mathematics in the formation of intellectual competencies of students of engineering specialties.

Keywords: Discrete mathematics, intellectual competence, intellectually developing learning.