

MATHEMATICAL MODELING IN THE SYSTEM OF VOCATIONAL TRAINING OF STUDENTS

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ABSTRACT

Theoretical studies of the role of the model method as a general scientific method of cognition consider it as a combination of the following general techniques: mapping the original in the language of a theory; creation (selection) of a model; her research; transfer of knowledge obtained as a result of research of the model to the original. By forming students' modeling skills, we thereby contribute to the development of such general intellectual devices as comparison, generalization, analysis, abstraction; professional skills such as research, design, performing. It is shown that a mathematics course in higher than educational institutions contains great opportunities for learning the method of mathematical modeling. The main directions of teaching students the method of mathematical modeling are: a model way of introducing a new concept; learning algorithms when considering math questions; learning the general algorithm of the modeling method.

Keywords: Mathematical modeling, training, students, educational, process, activity, understanding of the model.