

# **Model of a Methodological System of Advanced Education in Natural Sciences at a Leading University**

**Yu. A. Fedulova, E. S. Simbirskikh, A. V. Kozachek**

*Michurinsk State Agrarian University,  
Michurinsk, Tambov Region, Russia;  
Tambov State Technical University, Tambov, Russia*

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**Abstract:** The results of a study on the design of a model of a methodological system for teaching natural sciences in a leading university from the perspective of integrating science, production and education are presented. The analysis of existing studies is made. The necessity of updating the approaches, content, teaching methods of the disciplines of the natural science cycle in the aspect of advanced professional training according to model 4.0 is substantiated. The issues of the formation of digital literacy, advancing professional development in the framework of the natural science block of disciplines, as a factor in improving the quality of training.

Materials can be used to improve and increase the effectiveness of the training process in higher education.