

# Scientific and Methodological Support of the Stochastics Course in the System of Advanced Training of Mathematics Teachers

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**Abstract:** The introduction of updated general education standards justifies the need to update probabilistic and statistical knowledge of mathematics teachers. This can be achieved in the context of additional course training, namely, the scientific foundations of the “school” stochastics course and the corresponding methodological support. It is proposed to include in the supporting base of stochastic concepts and facts the properties of operations in Boolean algebras, to highlight the essential side of some basic provisions of stochastics (in particular, the concept of stochastic determinism), minimizing the corresponding mathematical formulations, to lay the principle of the task approach as the basis for the methodological support of the course and to indicate some directions for its implementation. As one of such directions, a probabilistic scheme of alternatives is proposed. Thematic tasks of the entrance and final tests are recommended, enabling to track the dynamics of mastering the course of stochastics by mathematics teachers.

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