Application of mathematical modeling in probability theory and mathematical statistics

Mirshohid Egamov^{1*}, Ergash Sharipov¹, Sa'dulla Shodiev², and Abdimumin Abdiraxmonov²

¹Karshi Engineering Economics Institute, 180100, Karshi, Uzbekistan

²Karshi State University, 180100, Karshi, Uzbekistan

Abstract. In this academic paper, the application of mathematical modeling in the fields of probability theory and mathematical statistics is rigorously explored. This study advocates for the integration of mathematical modeling into the pedagogical framework of these disciplines, proposing it as a strategic enhancement to traditional teaching methodologies. The incorporation of such models is posited to catalyze the cultivation of creative thinking capabilities within students. The discourse following this proposal delves into the intricate details, highlighting both theoretical underpinnings and practical applications of this integration. By infusing mathematical modeling into the curriculum, the initiative aims to enrich students' comprehension and application of complex statistical and probabilistic concepts, thereby equipping them with the tools to innovatively tackle real-world problems.

1 Introduction

Probability theory and mathematical statistics are significant branches of mathematics, but they also find extensive application in many related professional fields. In universities, courses on probability theory and mathematical statistics are considered among the most challenging. The objective of teaching these disciplines extends beyond merely imparting key concepts, methods, and conclusions; it is also aimed at developing mathematical thinking, enhancing the ability to apply mathematical ideas in practical activities. The application of mathematical modeling in probability theory and mathematical statistics can greatly inspire students' creative thinking. This discussion reveals how modeling can deepen understanding of random processes and statistical data, as well as improve the quality of teaching these subjects [1-9].

It is important to note that mathematical modeling enables students not only to analyze but also to predict the behavior of systems based on probabilistic distributions and statistical analysis, making learning more interactive and practice-oriented. Such an approach not only

^{*} Corresponding author: bobur160189@mail.ru

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