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The use of information technology in a course on probability theory with elements of descriptive statistics for future mathematics teachers. (Zastosowanie technologii informacyjnej w kursie rachunku prawdopodobieństwa z elementami statystyki opisowej dla przyszłych nauczycieli matematyki.)

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Summary: This paper shows the concept of a probability theory course with elements of descriptive statistics for future Mathematics teachers. This course is backed up by electronic materials provided via the Internet. An e-learning platform extends the communication opportunities and offers a wide access to educational materials available there. The contents available on the platform show the presented material in a new way, which limits its passive reception and makes the user an active participant of the course. The materials present a different approach to the proofs in a mathematical text. Instead of a static (ready) proof there is an interactive proof. Each part of material contains an interactive module Check Yourself, which allows self-control by the user.

Classification: K59 K49 D49 U59 R59 B50

Keywords: probability theory; descriptive statistics; e-learning; information technology; preservice teacher education; interactive proving; computer as educational medium