

ANALYSIS OF THE UNIVERSITY ENTRANCE EXAMINATIONS IN MATHEMATICS AT PLOVDIV UNIVERSITY

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Abstract. *In recent years, legislative changes permitting the use of State Matriculation Examinations (SME's) for university admission have altered the profile of applicants taking the mathematics entrance examination at Plovdiv University. This study presents a comprehensive analysis of both the content structure of the examination tests and the characteristics of the participating candidates. A priori and a posteriori analyses of the exam topics from 2023 to 2025 are conducted, including an assessment of the tasks and the difficulties observed in their solutions. The findings highlight trends in applicants' mathematical preparedness and suggest that the level of incoming student preparation is a critical factor influencing the overall quality of graduates at both the bachelor's and master's levels.*

Key words: University Entrance Examination, Mathematics, Test Analysis, Candidate Profile, Educational Quality.

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