

DECISION SUPPORT SYSTEM WITH MABAC METHOD TO DETERMINE THE BEST STUDENTS

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Abstract

This research aims to apply the Multi Attributive Border Approximation Area Comparison (MABAC) method in the process of selecting the best students in the educational environment. MABAC, as a multi-criteria decision making method, provides a systematic and objective approach to evaluating and comparing various attributes possessed by students. In this study, the criteria considered include academic, extracurricular, personality and social skills aspects. Data was collected from academic records, teacher assessments, and observations of student involvement in school activities. The MABAC method is used to calculate the relative weight of each criterion and determine a comprehensive score for each student. The research results show that the MABAC method is effective in providing a holistic and multifaceted assessment of student performance. In addition, this method also helps in identifying strengths and areas of development for each student, thereby providing valuable insight for teachers and educators in the coaching process. This research concludes that the application of MABAC can be a useful tool in the educational evaluation process, especially in determining the best students with a more objective and structured approach.

Keywords: DSS, Mabac, Students.

Introduction

In the world of education, the process of assessing and recognizing student achievements is an important aspect that contributes to their motivation and potential development. Determining the best students is often a challenge because it involves various criteria that must be assessed objectively and fairly. Traditionally, this assessment is often based on quantitative approaches such as academic grades. However, this approach does not always reflect students' overall abilities and potential, especially in non-academic aspects such as social skills, extracurricular activities, and personality. The Multi Attributive Border Approximation Area Comparison (MABAC) method emerged as a solution to overcome these limitations. MABAC is a multi-criteria decision making method that is able to integrate various assessment aspects into one comprehensive assessment system. This research aims to implement the MABAC method in an educational context, specifically to determine the best students by considering various broader aspects of assessment. This study begins with an in-depth