BAB I ABSTRACT

1.1.   Abstract

This study designs a decision support system that utilizes a combination of AHP and TOPSIS methods to select prodigious students on Abu Bakar Ash Shiddiq Integrated Islamic Elementary School. Manual selection processes can present several challenges, such as requiring significant time when numerous criteria are involved and a large number of students participate. Additionally, the selection process may be influenced by subjective judgments from the committee. To address these challenges, a decision support system is proposed, utilizing AHP and TOPSIS method. AHP method was used because it has the advantage of determining the weights and hierarchy of evaluation criteria, while the TOPSIS method can measure the relative performance of decision alternatives in a mathematical form to identify the best alternative.This decision support system can aid the selection committee in choosing high-achieving students more efficiently. Implementing a decision support system with combination of AHP and TOPSIS method in this study helps address issues by minimizing the time needed for the selection process and ensuring more objective selection results.

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