

ABSTRACT

TITLE : DESIGN OF A DECISION SUPPORT SYSTEM FOR DETERMINING STUDENT ACHIEVEMENT USING MULTI-OBJECTIVE OPTIMIZATION BY RATIO ANALYSIS (MOORA) METHOD SUPPORTED BY PHP AND MYSQL PROGRAMMING LANGUAGES
(CASE STUDY: SMP NEGERI 19 PADANG)

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STUDY PROGAM : INFORMATION SYSTEM

EDUCATION LEVEL : STRATA 1 (S1)

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Determining outstanding students at SMPN 19 Padang is still done manually, so the decision results are less precise and less accurate. The aim of this research is to help the principal of SMPN 19 Padang determine outstanding students using a Decision Support System (SPK) with the multi-objective optimization by ratio analysis (MOORA) method, this method is able to optimize a number of different attributes simultaneously. This system (SPK) is implemented in the PHP MySQL Database programming language. The results of the research show that it is easy to make decisions to see the results of the process for outstanding students at SMPN 19 Padang. After using this system, it can help the principal of SMPN 19 Padang determine which students are achieving correctly and accurately.

Kata kunci : *Promotion of employee positions, (MOORA), SPK, PHP, MYSQL.*

ABSTRAK

JUDUL : PERANCANGAN SISTEM PENDUKUNG KEPUTUSAN PENENTUAN SISWA BERPRESTASI MENGGUNAKAN METODE MULTI-OBJECTIVE OPTIMIZATION BY RATIO ANALYSIS (MOORA) DI DUKUNG BAHASA PEMROGRAMAN PHP DAN MYSQL (STUDI KASUS: SMP NEGERI 19 PADANG)

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Penentuan siswa berprestasi di SMPN 19 Padang masih dilakukan dengan cara manual, sehingga hasil keputusan kurang tepat dan kurang akurat. Tujuan penelitian ini membantu kepala sekolah SMPN 19 Padang menentukan siswa berprestasi menggunakan sistem pendukung Keputusan (SPK) dengan metode *multi-objective optimization by ratio analysis* (MOORA), metode ini mampu mengoptimalkan sejumlah atribut yang berbeda beda secara bersamaan. Sistem (SPK) ini diimplementasikan kedalam Bahasa pemograman PHP Database MySQL. Hasil penelitian menunjukkan bahwa kemudahan dalam pengambilan keputusan untuk melihat hasil proses siswa berprestasi di SMPN 19 Padang. Setelah menggunakan sistem ini dapat membantu kepala sekolah SMPN 19 Padang menentukan siswa berprestasi dengan tepat dan akurat.

Kata Kunci: *Keywords: Determination of Outstanding Students, (MOORA), SPK, PHP, MYSQL.*