

ABSTRACT

Thesis Title : **DETERMINATION OF GOTA SCHOLARSHIP PROGRAM RECIPIENT RECOMMENDATIONS FOR OPTIMIZING SCHOOL MANAGEMENT AT FRATER PADANG JUNIOR HIGH SCHOOL USING A COMBINATION OF ROC AND WASPAS METHODS**

STUDENT NAME : **William Amiko**

STUDENT NUMBER : **20101152630235**

FACULTY : **Computer Science**

ACADEMIC PROGRAM : **Informatics Engineering**

ADVISERS : **1. Randy Permana, S.Kom, M.Kom**
2. Shary Armonitha Lusia, S.Kom, M.Kom

The Gota Scholarship program is an initiative by the Catholic Social Association & Cemetery (PSKP) Santu Yusuf Padang, aimed at providing financial support to underprivileged students under the Prayoga Padang Foundation, including Frater Padang Junior High School. However, the selection process is still manual and time-consuming. To overcome this, a study was conducted by designing a recommendation system for program recipients using the Rank Order Centroid (ROC) and Weighted Aggregated Sum Product Assessment (WASPAS) methods based on the web. This system integrates data on potential recipients, enhances effectiveness and efficiency, evaluates accuracy, analyzes success factors, and provides recommendations for school management development and improvement. Data was collected through interviews and student grade information. The hope is that this research assists schools in selecting aid recipients who have the potential to make a positive contribution. The use of ROC and WASPAS methods provides a strong scientific basis for decision-making related to this program, with the goal of enhancing the effectiveness and efficiency of Gota Scholarship management at Frater Padang Junior High School.

Keywords : Decision Support Systems, Gota Scholarship, SMP Frater Padang, Rank Order Centroid, Weighted Aggregated Sum Product Assessment

ABSTRAK

JUDUL : **PENENTUAN REKOMENDASI
PENERIMA PROGRAM GOTA
SCHOLARSHIP UNTUK OPTIMALISASI
MANAJEMEN SEKOLAH PADA SMP
FRATER PADANG MENGGUNAKAN
KOMBINASI METODE ROC DAN
WASPAS**

NAMA : **William Amiko**

NO. BP : **20101152630235**

PROGRAM STUDI : **Teknik Informatika**

JENJANG PENDIDIKAN : **Strata 1**

PEMBIMBING : **1. Randy Permana, S.Kom, M.Kom**
2. Shary Armonitha Lusia, S.Kom, M.Kom

Program Gota *scholarship* merupakan inisiatif dari Perkumpulan Sosial Katholik & Pemakaman (PSKP) Santu Yusuf Padang, bertujuan menyokong finansial siswa kurang mampu di bawah Yayasan Prayoga Padang, termasuk SMP Frater Padang. Namun, proses seleksinya masih manual dan memakan waktu lama. Untuk mengatasi hal ini, penelitian dilakukan dengan merancang sistem rekomendasi penerima program ini menggunakan metode *rank order centroid* (ROC) dan *weighted aggregated sum product assessment* (WASPAS) berbasis *web*. Sistem ini mengintegrasikan data penerima potensial, meningkatkan efektivitas dan efisiensi, mengevaluasi akurasi, menganalisis faktor-faktor keberhasilan, dan memberikan rekomendasi untuk pengembangan dan perbaikan manajemen sekolah. Data dikumpulkan melalui wawancara dan informasi nilai siswa. Harapannya, penelitian ini membantu sekolah memilih penerima bantuan yang berpotensi berkontribusi positif. Penggunaan metode ROC dan WASPAS memberikan dasar ilmiah yang kuat dalam pengambilan keputusan terkait program ini, dengan tujuan meningkatkan efektivitas dan efisiensi manajemen Gota *scholarship* di SMP Frater Padang.

Kata Kunci : Sistem Pengambilan Keputusan, Gota Scholarship, SMP Frater Padang, Rank Order Centroid, Weighted Aggregated Sum Product Assessment