IMPLEMENTASI METODE *COMPLEX PROPORTIONAL ASSESSMENT (COPRAS)* DALAM PENENTUAN PENERIMAAN BEASISWA BAZNAS DI UNIVERSITAS MALIKUSSALEH BERBASIS *WEB*

ABSTRAK

Beasiswa BAZNAS merupakan bantuan Pendidikan yang ditujukan bagi mahasiswa berprestasi namun kurang mampu secara ekonomi. Proses seleksi penerima beasiswa di Universitas Malikussaleh sebelumnya dilakukan secara manual, sehingga berpotensi menimbulkan ketidaktepatan sasaran. Penelitian ini bertujuan untuk membangun sistem pendukung keputusan berbasis *web* menggunakan metode *Complex Proportional Assessment* (COPRAS) guna meningkatkan akurasi dan efisiensi dalam penentuan penerima beasiswa BAZNAS. Metode COPRAS dipilih karena kemampuannya dalam mengelola kriteria dengan bobot berbeda dan menilai alternatif secara proportional, baik terhadap kriteria menguntungkan maupun merugikan. Sistem ini dirancang menggunakan bahasa pemrograman PHP dengan *database MySQL,* serta melalui pendekatan *Rapid Application Development* (RAD). Hasil penelitian menujukkan bahwa sistem yang dikembangkan mampu mengolah data calon penerima beasiswa BAZNAS berdasarkan lima kriteria utama yaitu Nilai IPK (Indeks Prestasi Kumulatif), Pendapatan Orang Tua, Kepemilikan SKTM (Surat Keterangan Tidak Mampu), Prestasi Mahasiswa//i, dan Status Sedang Tidak Menerima Beasiswa dari Instansi Manapun. Sistem berhasil memberikan rekomendasi penerima beasiswa secara objektif berdasarkan perhitungan nilai utilitas menggunakan metode COPRAS. Berdasarkan hasil analisis, terdapat 3 orang yang direkomendasikan sebagai penerima beasiswa BAZNAS pada tahun 2023 yaitu Ela Nabila dengan nilai utilitas 100%, Megah Bensuniara dengan nilai utilitas 98.943%, dan Shabrina Hanifa dengan nilai utilitas 93,6653%. Implementasi sistem ini diharapkan dapat membantu pihak kemahasiswaan Universitas Malikussaleh dalam mengambil keputusan yang tepat dan adil terkait penyaluran beasiswa BAZNAS secara efektif dan efisien.

Kata Kunci: SPK, Beasiswa, BAZNAS, COPRAS, Universitas Malikussaleh, *Website*, Kriteria.

IMPLEMENTATION OF THE COMPLEX PROPORTIONAL ASSESSMENT (COPRAS) METHOD IN DETERMINING THE RECEIPT OF BAZNAS SCHOLARSHIP AT MALIKUSSALEH UNIVERSITY BASED ON WEB

ABSTRACT

BAZNAS Scholarship is an educational assistance aimed at outstanding students who are economically disadvantaged. The selection process for scholarship recipients at Malikussaleh University was previously carried out manually, which has the potential to cause inaccuracy in targeting. This study aims to build a web-based decision support system using the Complex Proportional Assessment (COPRAS) method to improve accuracy and efficiency in determining BAZNAS scholarship recipients. The COPRAS method was chosen because of its ability to manage criteria with different weights and assess alternatives proportionally, both against profitable and disadvantageous criteria. This system is designed using the PHP programming language with a MySQL database, and through the Rapid Application Development (RAD) approach. The results of the study showed that the developed system was able to process data on prospective BAZNAS scholarship recipients based on five main criteria, namely GPA (Cumulative Achievement Index), Parental Income, Ownership of SKTM (Certificate of Inability), Student Achievement, and Status of Not Receiving Scholarships from Any Institution. The system successfully provided objective recommendations for scholarship recipients based on utility value calculations using the COPRAS method. Based on the analysis results, there are 3 people who are recommended as BAZNAS scholarship recipients in 2023 namely Ela Nabila with a utility value of 100%, Megah Bensuniara with a utility value of 98.943%, and Shabrina Hanifa with a utility value of 93.6653%. The implementation of this system is expected to help the student affairs of Malikussaleh University in making the right and fair decisions regarding the distribution of BAZNAS scholarships effectively and efficiently.

Keywords: *DSS, BAZNAS, Scholarship, COPRAS, Malikussaleh University, Website, Criteria.*