ABSTRAK

Febrian Nur Jananto. 2024. Sistem Pendukung Keputusan Perekrutan Anggota BEM Universitas PGRI Madiun Menggunakan Metode *Simple Additive Weighting* (SAW) dan *Weighted Product* (WP). *Skripsi*. Program Studi Teknik Informatika, FT, Universitas PGRI Madiun. Pembimbing (I) Sri Anardani, S.Kom., M.T. (II) Puguh Jayadi, S.Kom., M.Kom.

Sistem pendukung keputusan perekrutan anggota Badan Eksekutif Mahasiswa (BEM) Universitas PGRI Madiun dapat membantu mempercepat kinerja dan lebih efisien dalam menyeleksi calon anggota BEM. Metode yang digunakan dalam pengembangan SPK ini adalah *Simple Additive Weighting* (SAW) dan *Weighted Product* (WP), yang memungkinkan penilaian komprehensif terhadap calon anggota berdasarkan berbagai kriteria, seperti IPK, Pengalaman Organisasi, Pengetahuan Organisasi, Motivasi Diri, Kerjasama, Etika, Kemampuan Komunikasi, dan Nilai Tes Tulis. Data untuk penelitian ini dikumpulkan melalui wawancara kepada Presiden BEM. Sistem yang dikembangkan kemudian diuji menggunakan data calon anggota dari periode perekrutan terakhir. Hasil pengujian menunjukkan bahwa metode SAW dan WP mampu memberikan rekomendasi dalam menyeleksi calon anggota yang memenuhi kriteria. Kesimpulan dari penelitian ini adalah bahwa penerapan metode SAW dan WP dalam SPK dapat meningkatkan efisiensi dan objektivitas proses perekrutan anggota BEM. Metode SAW memiliki tingkat akurasi dengan persentase 73,53% dan metode WP memiliki tingkat akurasi dengan persentase 58,82%, sehingga dapat disimpulkan bahwa metode SAW lebih unggul dan layak digunakan menentukan perekrutan anggota BEM.

Kata kunci: Sistem Pendukung Keputusan, *Simple Additive Weighting*, *Weighted Product*

ABSTRACT

Febrian Nur Jananto. 2024. *Decision Support System for Recruitment of BEM Universitas PGRI Madiun Members Using Simple Additive Weighting (SAW) and Weighted Product (WP) Methods*. *Thesis. Informatics, Faculty of Engineering*, Universitas PGRI Madiun. *Advisor* (I) Sri Anardani, S.Kom., M.T. *Co-Advisor* (II) Puguh Jayadi, S.Kom., M.Kom.

The Decision Support System for recruiting BEM members at Universitas PGRI Madiun can help speed up performance and be more efficient in selecting prospective BEM members. The method used in developing this DSS is Simple Additive Weighting (SAW) and Weighted Product (WP), which allows a comprehensive assessment of prospective members based on various criteria, such as GPA, Organizational Experience, Organizational Knowledge, Self-Motivation, Cooperation, Ethics, Communication Skills, and Written Test Scores. Data for this research was collected through interviews with the President of BEM. The system developed was then tested using prospective member data from the last recruitment period. The test results show that the SAW and WP methods are able to provide recommendations in selecting prospective members who meet the criteria. The conclusion of this research is that the application of the SAW and WP methods in the DSS can increase the efficiency and objectivity of the BEM member recruitment process. The SAW method has an accuracy rate of 73.53% and the WP method has an accuracy rate of 58.82%, so it can be concluded that the SAW method is superior and worthy of being used to determine the recruitment of BEM members.

Keywords: *Decision Support System*, *Simple Additive Weighting*, *Weighted Product*