

ABSTRACT

SRI NURHALISA SOGA. T3120109. THE DECISION SUPPORT SYSTEM FOR DETERMINING THE ELECTION SUPERVISORY COMMITTEE SELECTION OF URBAN VILLAGE/VILLAGES IN THE PONELO ISLANDS SUBDISTRICT USING THE ANALYTICAL HIERARCHY PROCESS (AHP) ALGORITHM

This research aims 1) to design a Decision Support System for determining the election supervisory committee selection of urban villages/villages in the Ponelo Islands Subdistrict, and 2) to apply the Analytical Hierarchy Process (AHP) algorithm to the Decision Support System in determining the election supervisory committee selection of urban villages/villages in the Ponelo Islands Subdistrict. The research methods used are literature studies, interviews, and data analysis. The object of the research is to determine the comparison value between criteria and alternative applicants with a Decision Support System using the Analytical Hierarchy Process (AHP) method. This research takes 8 months from August 2023 to May 2024, located at the Secretariat of the election supervisory body in the Ponelo Islands Subdistrict. Based on the results of the study in the design of a system for determining the election supervisory committee selection of urban village/village in the Ponelo Islands Subdistrict with the Analytical Hierarchy Process (AHP) Algorithm, there are 12 data from the research location and 10 test data to determine the priority of criteria and alternatives. After calculating the 10 test data, the results show that 1 person is ranked First and 9 in the middle to lowest rank. This research contributes to the information technology development that supports the election supervisory committee selection of urban villages/villages in the Ponelo Islands Subdistrict. In addition, this research also provides a basis for future researchers to develop similar systems in different contexts.

Keywords: DSS, Election Supervisory Committee, AHP algorithm, selection, urban villages/villages



ABSTRAK

**SRI NURHALISA SOGA. T3120109. SISTEM PENDUKUNG KEPUTUSAN
PENENTUAN SELEKSI PANWASLU KELURAHAN/DESA SE-
KECAMATAN PONELO KEPULAUAN DENGAN ALGORITMA
ANALYTICAL HIERARCHY PROCESS (AHP)**

Penelitian ini bertujuan 1) untuk merancang sistem pendukung keputusan penentuan seleksi panwaslu Kelurahan/Desa Se-Kecamatan Ponele Kepulauan, dan 2) untuk menerapkan algoritma *Analytical Hierarchy Process* (AHP) sistem pendukung keputusan pada penentuan seleksi Panwaslu Kelurahan/Desa Se-Kecamatan Ponele Kepulauan. Metode penelitian yang digunakan adalah studi literatur, wawancara, dan analisis data. Objek penelitian penulis yaitu menentukan nilai perbandingan antara kriteria dan alternatif pelamar dengan sistem pendukung keputusan menggunakan Metode *Analytical Hierarchy Process* (AHP). Penelitian ini dilaksanakan dalam waktu 8 bulan terhitung dari bulan Agustus 2023 sampai bulan Mei 2024 yang berlokasi di Sekretariat Panwaslu Kecamatan Ponele Kepulauan. Dari hasil penelitian bahwa pada Perancangan Sistem untuk Penentuan Seleksi Panwaslu Kelurahan/Desa Se-Kecamatan Ponele Kepulauan dengan Algoritma *Analytical Hierarchy Process* (AHP) Penulis mengambil 12 data dari lokasi penelitian dan 10 data uji untuk menentukan Prioritas kriteria dan alternatif. Setelah dilakukan perhitungan pada 10 data uji maka didapat hasil bahwa 1 orang berada di peringkat pertama dan 9 orang berada di peringkat menengah sampai terendah Penelitian ini memberikan kontribusi dalam pengembangan teknologi informasi yang mendukung proses seleksi Panwaslu Kelurahan Desa. Selain itu, penelitian ini juga memberikan dasar bagi peneliti selanjutnya untuk mengembangkan sistem serupa dalam konteks yang berbeda.

Kata kunci: SPK, Panitia Panwaslu, algoritma AHP, seleksi, kelurahan/desa