

ABSTRAK

Murni, Ni Nyoman (2023), *Implementasi Metode Fuzzy Analytical Hierarchy Process (F-AHP) Dalam Penentuan Bobot Seleksi Mahasiswa Program Pendidikan Dokter Spesialis (Studi Kasus: PS Ilmu Kesehatan Kulit dan Kelamin FK Udayana)*. Tesis, Ilmu Komputer, Program Pascasarjana, Universitas Pendidikan Ganesha.

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Kata kunci: *Confusion Matrix, Fuzzy Analytical Hierarchy Process, Pembobotan*

Tujuan dari penelitian ini adalah mengimplementasi metode *Fuzzy Analytical Hierarchy Process (F-AHP)* dalam menentukan bobot penerimaan mahasiswa pendidikan dokter spesialis Ilmu Kesehatan Kulit dan Kelamin di Fakultas Kedokteran Universitas Udayana dan mengukur tingkat akurasi metode F-AHP dengan menggunakan metode *confusion matrix*. Metode F-AHP mampu mengurangi penilaian kriteria yang bersifat subjektif dari metode AHP dan menghasilkan keputusan yang lebih. Proses perhitungan dimulai dari menyusun matriks perbandingan berpasangan dari hasil wawancara, menghitung nilai eigen, menghitung nilai rasio konsistensi, merubah pembobotan kriteria ke dalam bentuk matrik berpasangan kriteria F-AHP, menghitung nilai *fuzzy syntethic extent* untuk tiap kriteria sampai mendapatkan bobot dari masing-masing variabel. Bobot yang dihasilkan adalah: C1 = kompetensi dasar sebesar 30%, C2 = Tes wawancara sebesar 30%, C3= Tes potensi akademik sebesar 17%, dan C4 = TOEFL sebesar 23%. Pengujian akurasi dilakukan dengan menggunakan validasi metode *confusion matrix*. Akurasi total diperoleh sebesar 89%, sedangkan akurasi per-predikat kelulusan diperoleh cumlaude = 93%, sangat memuaskan = 84% dan memuaskan = 90%. Temuan tersebut mengindikasikan bahwa bobot yang diperoleh signifikan untuk diterapkan dalam proses seleksi mahasiswa program pendidikan dokter spesialis.

ABSTRACT

Murni, Ni Nyoman (2023), *Implementation of the Fuzzy Analytical Hierarchy Process (F-AHP) Method in Determining the Selection Weight of Students of Specialist Medical Education Program (Case Study: PS Dermatology and Venereology FK Udayana)*. Thesis, Computer Science, Postgraduate Program, Ganesha University of Education.

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Keywords: *Confusion Matrix, Fuzzy Analytical Hierarchy Process, Weighting*

The purpose of this study was to implement the Fuzzy Analytical Hierarchy Process (F-AHP) method in determining the weight of admission of specialist medical education students in Skin and Gender Health Sciences at the Faculty of Medicine, Udayana University and measure the accuracy of the F-AHP method using the confusion matrix method. The F-AHP method is able to reduce the subjective assessment of criteria from the AHP method and produce more decisions. The calculation process starts from compiling a pairwise comparison matrix from the interview results, calculating the eigenvalue, calculating the consistency ratio value, converting the criteria weighting into the form of a paired matrix of F-AHP criteria, calculating the fuzzy syntethic extent value for each criterion until getting the weight of each variable. The resulting weights are: C1 = basic competency by 30%, C2 = Interview test by 30%, C3 = Academic potential test by 17%, and C4 = TOEFL by 23%. Accuracy testing is done using confusion matrix method validation. The total accuracy obtained is 89%, while the accuracy per-predicate of graduation is cumlaude = 93%, very satisfying = 84% and satisfying = 90%. The findings indicate that the weights obtained are significant to be applied in the selection process of specialist medical education program students.