

ABSTRACT

SISTEM PENUNJANG KEPUTUSAN PEMBERIAN BEASISWA DENGAN METODE ANALYTICAL HIERARCHY PROCESS DAN PROFILE MATCHING PADA SMK MUHAMMADIYAH 4 JAKARTA

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At Muhammadiyah 4 Vocational School Jakarta is one of the vocational high schools in Jakarta that has implemented and run a scholarship program annually for students. From the beginning of the year the scholarship awarding was initiated until now determining the awarding of the scholarship was still experiencing many difficulties because of the large number of students who potentially received the scholarship and the absence of certain criteria so that the assessment was still subjective. Therefore, SMK Muhammadiyah 4 Jakarta requires a decision support system that can help to compare the value of prospective scholarship recipients to facilitate the decision making process. This decision support system uses the Analytical Hierarchy Process (AHP) method to compare the value of each criterion that will produce criteria weighting and the Profile Matching method to determine the final value of scholarship recipients at SMK Muhammadiyah 4 Jakarta. Among them are Grades, Achievements, Semester Ranking and parents' allowances. The result of this decision support system is a report of decision results containing the awardees who have been ranked based on the highest to lowest scores. From the results obtained is the number of values is the highest weighting factor in determining scholarships in SMK Muhammadiyah 4 Jakarta amounting to 0.4362. The decision support system for the determination of scholarship recipients was made using MySql as a database and PHP Framework as a system creation tool.

Keywords: Beasiswa, AHP, Profile Matching.