

ABSTRACT

DECISION SUPPORT SYSTEM DETERMINES THE OUTSTANDING STUDENTS BASED ON TEACHING FACTORY PRACTICES ASSESSMENT WITH THE FUZZY SIMPLE ADDITIVE WEIGHTING METHOD

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The industry development today, the government is trying to improve the quality of human resources by developing the teaching factory programs, especially for vocational schools. In the teaching factory program, the students are required to carry out work practices like in the industrial world, then students will be assessed based on the work practices assessment. In assessing the practice, SMK Negeri 1 Metro requires a system to determine high-achieving students who are able to work in Alfamart without doing the test. One of the ranking method to determine the assessment of these practices was Simple Additive Weighting. Meanwhile, Fuzzy Multiple Attribute Decision Making (FMADM) was used to find the best alternative from a number of alternatives with particular criteria. The criteria used in this decision support system were quality, knowledge, discipline, creativity, and attitude. In integrating web-based decision support system, the problem of evaluating student practice in the teaching factory program was able to be resolved with good time effectiveness and accuracy. Filling out criteria, variables, attributes, weights, and values were able to be directly inputted through the system so that the ranking to be taken was in the expected results.

Keywords: Decision Support System, Fuzzy Saw, Teaching Factory, Practice Assessment, The Outstanding Student.