ABSTRACT

Major decisions are taken in determining majors High School or less will affect the life of a student steps into the future. Process in the majority of high school majors, as well as in SMA Negeri 1 Dayeuh Kolot, is still done manually. Teachers must select one by one in determining the direction for each student based on academic grades in class X, psychological test results and questionnaire desires (interests) of students, thus causing the process of determining the student majors take quite a long time, about two weeks to get the majors.

The system in this final project is a Decision Support System (DSS) in high school majors are expected to assist in determining the direction of students in high school. The system uses Fuzzy Multi-Criteria Decision Making (FMCDM) method, in which this method is one method that can be applied in cases of decision making. This method of decision making some decisions based on multiple criteria alternatives are taken into consideration to get a decision.

A series of tests was conducted to determine the accuracy of the system is built. From a series of test scenarios conducted showed a maximum of 75,22%. This suggests that the method can be applied in the system FMCDM high school majors.

Keyword: FMCDM, majoring, senior high school