ABSTRACT

In the study evaluating of students performance, one of the indicator variables that can be used is the information about the period of studies that are closely related to the graduation. Period of study prediction can be an early warning to the faculty trustee or chairman of the study program, against the conditions of student performance. Predict the study period early, after completing Tahun Pembelajaran Bersama (TPB), will be very useful in the improvement process of students performance so that the opportunity to graduate on time will be even greater.

This research use the Neuro Fuzzy Classification (NEFCLASS) model to predict the study period of students that are classified into two classes, on time class and not on time class. NEFCLASS can build a fuzzy modeling system which has the ability to learn as the capabilities of the ANN to find rules and appropriate membership functions for the problems. So, it has the advantage of ANN and fuzzy system which is able to learn, adaptable, and able to extract knowledge.

Predictors are used to predict the study period of student are GPA of TPB, period of TPB, the total number of repeated courses, and the number of particular repeated courses in the period of TPB. Analyzes were performed on the influence of predictors, learning rate and the epoch of the system. The results showed that optimal performance that can be obtained is 77.725%.

Keywords: predict study period of students, NEFCLASS.