

## ***ABSTRACT***

In the world of education on the value of the course, there are some standard calculations to give final grades on student scores. Lecturers using Microsoft Excel to calculate the final value and then converted into an index value. In calculating the value of the course authors compared the value of the membership function in MATLAB.

One area of science that I often use to predict the index value of the end of the course is Soft Computing (SC). Soft Computing in the course of my study of Adaptive Neuro Fuzzy Inference System (ANFIS) is a combination of Neural Networks and Fuzzy Logic. In a neural network capable of classifying an input of data into specific categories that have been defined, and can process data input data without having to have a target so as to find a best answer, while the fuzzy logic has a value fuzzyness between right and wrong at the same time but on the values of right and wrong the weight depends on its membership.

This final project to implements ANFIS to predict the final score of each subject by using the data of the scores that have been achived each semester. The accuration of the method is 73% if the index used are A, B, C, D, E and for the A, AB, B, BC, C, D, E index it achieves 84% of accuration rate by employing gauss membership function. This accuration data is acquired to give scores and to determine the indexes of final scores by using ANFIS. More over they are used to analyze the application of ANFIS in determining the final scores. The data is divided into training data and test data.

*Keywords : Index Value, Accuracy, Prediction, fuzzy, artificial neural network, Adaptive Neuro Fuzzy Inference System*