

## ABSTRACT

The indicators of macroeconomic aspects is an important for a country, This is because the macroeconomic performance could be affect to the large and comprehensive scope for a country. Indicators macroeconomic data that published by government or private, can be used as a reference in the policy issued for the next decision. In this final project, there are only use three macroeconomic indicators for to made a model of interaction. The economic indicators used are: Indonesia Interest rate, Dolar and Rupiah exchange rate, and inflation. The model was built using a model of dynamical system, the parameters of the model obtained from the genetic algorithm and runge kutta. Model and parameters obtained illustrate the trend of the indicator movement in Indonesia interest rate, Dolar and Rupiah exchange rate, and inflation. So that could to looking the trend for to the next five years. As for the trend of Indonesia interest rate which is described by the model has an error rate as 11%, the dolar and rupiah exchange rate as 14.1%, and inflation as 20.6%. By utilizing a model of dynamical system that can knowing parameters. then that model can predictions for a trends to next five years, it is known that the trend for Indonesia interest rate tend to increase, the dolar and rupiah exchange rate tend to increase, and inflation is tend to decrease.

**Keywords :** *Interest Rate of Indonesia, Rupiah and Dollar Exchange Rate, Inflation, Dynamical System, Genetic Algorithm, Runge Kutta.*