

**ANALYSIS OF ROAD ACCIDENT IN OGUN STATE
USING ARIMA MODEL**

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JULY, 2012

ABSTRACT

The project work is on Time Series Analysis of monthly number of vehicle involved in road accident in Ogun State, this work applies ARIMA model to road accident within the periods 1996-2007, through Box-Jenkins methodology in which AR(1); order one, was generated in terms of random walk assumptions. The analysis of the original data is non-stationary and this leads to differencing the data and using the estimated value of my difference for the analysis. The generated model is preferred, as it was proved through the diagnostic check as the best fir and the most adequate for the road accident based on its potentials for better prediction, and computation requirements.