ABSTRACT

This study aims to determine prediction number of modern private Vocational High School (SMK) students in a province in Borneo with the approach of six forecasting methods: Linear Regression, Exponential Smoothing with Trend, Exponential Smoothing, Weighted Moving Average, Moving Average, and the Naïve Method, besides using Manual calculation, the approach of QM for windows is used as a comparison. The result will be determined by the six forecasting methods which is used as a proper basis for the next calculating based on the smallest MAD (Mean Absolute Deviation) and MSE (Mean Squared Error) approach. The data in this study were made by the writer alone.

Keywords: *prediction of Vocational High School students, MAD, MSE, manual, QM for windows*

ABSTRAK

Penelitian ini bertujuan untuk mengetahui prediksi jumlah siswa Sekolah Menengah Kejuruan (SMK) swasta modern di sebuah propinsi di Kalimanatan dengan pendekatan enam metode forecasting yaitu Linear Regression, Exponential Smoothing With Trend, Exponential Smoothing, Weighted Moving Average, Moving Average, dan Naïve Method, selain menggunakan perhitungan secara Manual juga menggunakan pendekatan QM for windows, sebagai perbandingan. Hasilnya akan ditentukan dari enam metode forecasting tersebut yang layak dipakai sebagai dasar perhitungan selanjutnya berdasarkan pendekatan MAD (Mean Absolute Deviation) dan MSE (Mean Squared Error) terkecil. Data dalam penelitian ini hanyalah rekayasa penulis semata.

Kata kunci: *prediksi siswa SMK, MAD, MSE, manual, QM for windows*