

ABSTRACT

STRUCTURAL EQUATION MODELING USING *DIAGONALLY WEIGHTED LEAST SQUARE* (DWLS) ESTIMATION METHOD (Case Study: Student Satisfaction of FMIPA University of Lampung on The Performance of Lecturers in The Lecture Process)

By

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Structural equation modeling is a statistical technique that is able to analyze pattern of simultan linear relationship between latent variables and indicator variables. The aim of this research to estimate the structural equation model using the Diagonally Weighted Least Square (DWLS) method and analyze effects between latent variables. The data that used is questionnaire data about student satisfaction of FMIPA University of Lampung on the performance of lecturers in the lecture process. Which consist of 3 latent variables and 16 indicator variables with a sample size of 500. Based on the results obtained that performance of the lecturers affects student satisfaction through intermediate variables that is quality of lectures with a total effect of 0,8564.

Keywords: structural equation modeling, diagonally weighted least square.

ABSTRAK

MODEL PERSAMAAN STRUKTURAL MENGGUNAKAN METODE ESTIMASI *DIAGONALLY WEIGHTED LEAST SQUARE* (DWLS) (Studi Kasus Kepuasan Mahasiswa FMIPA Universitas Lampung Terhadap Kinerja Dosen dalam Proses Perkuliahan)

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Model persamaan struktural merupakan sebuah metode statistika yang mampu menganalisis pola hubungan linear secara simultan antara variabel laten dan variabel indikator. Penelitian ini bertujuan untuk mengestimasi model persamaan struktural menggunakan metode *Diagonally Weighted Least Square* (DWLS) dan menganalisis pengaruh total antar variabel laten. Data yang digunakan merupakan data kuisioner tentang kepuasan mahasiswa FMIPA Universitas Lampung terhadap kinerja dosen dalam proses perkuliahan, yang terdiri dari 3 variabel laten dan 16 variabel indikator dengan sampel berukuran 500. Berdasarkan hasil penelitian diperoleh bahwa kinerja dosen mempengaruhi kepuasan mahasiswa melalui variabel perantara yaitu kualitas perkuliahan dengan pengaruh total sebesar 0,8564.

Kata kunci: model persamaan struktural, *diagonally weighted least square*.