

1086-D5-1561

Khairul Islam* (mislam4@emich.edu), Department of Mathematics, Eastern Michigan University, Ypsilanti, MI 48197. *Modeling and Evaluation Strategy in Undergraduate Calculus Curriculum.*

Fitting models to empirical data are important phenomena in real-life situations. Often, modeling in calculus class is done superficially without appropriate strategies and an adequate evaluation of models. Because introductory calculus covers the mathematical skills (for example, optimization criteria) necessary for fitting models, it is imperative that the students receive a thorough insight and evaluation of models as a part of the curriculum. This talk provides modeling and evaluation strategies to fitted models using empirical data which is important to enhance learning process. (Received September 23, 2012)