1125-J5-207 Aden Ahmed* (aden.ahmed@tamuk.edu), Department of Mathematics, Texas A&M University-Kingville, Kingsville, TX 78363, and Khairul Islam (kislam@emich.edu), Department of Mathematics, Eastern Michigan University, Ypsilanti, MI 48197. On Implementing Meaningful Model Selection Criteria.

We are surrounded by real-life data, and fitting models to real-life data are of the greatest interests while teaching modeling to beginner college students. It is possible that the fitted models are not adequate due to the lack of fitness or valid interpretability. Given a set of data, we might end up with different interpretations due to the use of different alternative models. What criteria should determine the best model for a given set of data? The answer to this question leads to the model selection criteria, which traditional text books never address. In this presentation, we will review various model selection criteria, which can be implemented successfully to help students adapt a meaningful model. We will also provide various examples and applications from real-life situations in order to demonstrate effectiveness of these model selection criteria. (Received September 20, 2016)