

**ITEM ANALYSIS AND RELIABILITY OF MULTIPLE-CHOICE ITEMS OF PHYSICS
TEACHER-MADE TEST IN FEDERAL UNIVERSITY OF AGRICULTURE,
MAKURDI, BENUE STATE**

BY

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ABSTRACT

The practice of testing has become increasingly common and a reliance on information gained from test scores has made a remarkable revelation about testees particularly in Universities. This study investigated the reliability and item characteristics of Physics Teacher-Made Test items in Federal University of Agriculture, Makurdi, Benue State. The study examined the difficulty indices, discrimination indices and reliability index of the Physics Teacher-Made Test. The study adopted an Ex-post facto Research Design. The population of the study comprises all the 2182 students that offered PHY 111 for the 2015/2016 session. 1112 students answer scripts was selected using systematic sampling technique to serve as the sample. Students' marked OMR answer scripts consisting of 35-test items was the instrument for data collection. The data collected for the study were analyzed using 2-Parameter Logistic Model of IRT developed in the BILOG MG software (PHASE1) for determination of the CTT item characteristics (difficulty and discrimination indices) and Cronbach Alpha to answer the research questions. It was revealed among others that; majority of the of the Physics Teacher-Made Tests Items fell outside the acceptable range of item difficulty (0.30-0.70), while majority fell within the acceptable range of item discrimination (0.30-1.00). The finding also revealed that the reliability index of the Physics Teacher-Made Test was low (< 0.5). Based on the findings of the study, it was recommended that, Workshops should be organized by Universities to train and update teachers' knowledge on test construction and standardization in order to develop valid and reliable tests.

Keywords: Physics, Teacher-Made Test, Multiple Choice Test Items, Reliability and Item Analysis

Introduction

Physics is one of the science subjects taught in the school beginning with the Senior Secondary school up to the university level. Physics is very important to scientific and technological advancement of any nation. It involves the study of matter, energy and their interactions.

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