

# THE EFFECTIVENESS OF A PROPOSED TRAINING PROGRAM BASED ON LEARNING THROUGH MOBILE PHONES IN ACQUIRING THE PRE SERVICE MATHEMATICS TEACHERS LEARNING ENGAGEMENT SKILLS AND DESIGNING DIGITAL LEARNING OBJECTS

**Ahmed Sadek Abdelmagid**  
**Faculty of Education**  
**Sohag and King Khalid University**  
**ahmedsadek@yahoo.com**

***Abstract**\_This study aimed at identifying the impact of using a proposed training program based on learning through mobile phones on acquiring the pre service mathematics teachers learning engagement skills and designing digital learning objects. This study also aimed at identifying the most effective contexts in learning of mathematics through mobile phones. To achieve this aim, a group of (11) students from the College of Education, primary education division majoring in "Mathematics" was selected. The students of this group were trained in the proposed training program based on the mobile. A test that measures the learning engagement skills and an observation form for designing the digital learning objects as well as a questionnaire to identify the most effective contexts. Wilcoxon test and Spearman equation were utilized to analyze the results of the study. Results indicated that the proposed training program has contributed to the improvement of the learning engagement skills and the design of digital learning objects in the field of mathematics. Results also stated that the interactive context ranked first in contexts that have a significant impact on the learning of mathematics through mobile phones.*

***Keywords:** learning through mobile phones, learning engagement, digital learning objects.*