Abstract

Research title:
Using a Mobile Learning Environment for Developing Hearing Impaired Students' Interactive Lessons Production Skills and the Efficiency of Cognitive Representation of Information for Faculty of Education, History Section Students.

The research problem was represented in the existence of a deficiency in the skills of producing interactive lessons for students with hearing impairment and the efficiency of cognitive representation of information among History section students at the Faculty of Education, which is evident in the absence of the use of appropriate modern technological strategies, environments and techniques for their development and advancement among learners. **The research aimed at** measuring the effectiveness of using a mobile learning environment in developing the skills of producing interactive lessons for hearing impaired students and the efficiency of cognitive representation of information for the College of Education, History Section students. **The research has relied on b**oth the analytical descriptive approach in surveying previous studies, presenting the theoretical framework, as well as preparing the research tools, and the experimental approach in conducting the experiment. The experiment was conducted on a research group of (32) students from the third year of the Faculty of Education, History Section. In order to reach a solution to the research problem, **a number of steps were** followed, perhaps the most important of which were: preparing a questionnaire about the educational needs of History Section students at the Faculty of Education in the light of the interactive lessons production skills; a list of skills for producing interactive lessons for students with hearing impairment; and a list of criteria for designing a mobile learning environment. The instructional design of the mobile learning environment was done according to the ADDIE model. **For measuring the effectiveness** of the mobile learning environment, the measurement tools were prepared, which consisted of: an observation sheet for the interactive lessons production skills for students with hearing impairment, and the efficiency of information cognitive representation scale. **The two research tools** were administered to the research group, then teaching the topics of the mobile learning environment, then the two tools were re-administered to the research group after teaching. The results were reached and processed statistically. By calculating Black Modified Gain Ratio and its significance, the results confirmed that the mobile learning environment is characterized by a large degree of effectiveness in developing the skills of producing interactive lessons for students with hearing impairment and the efficiency of cognitive representation of information for History Section students at the faculty of Education; the research group. Accordingly, the research presented a set of recommendations and suggestions for further research based on the results.

Keywords: Mobile Learning - Producing Interactive Lessons – Hearing impaired students - Efficiency of Cognitive Representation of Information.