

The Impact of Using Multimedia in Teaching and Learning Computer Numbering Systems

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The purpose of this action research is to find out the impact of using multimedia technology in students' academic achievements in the introduction to computer course. The action research was implemented on a group of students in the College of Applied Professions at Palestine Polytechnic University. This study effort is to answer the following question:

Are there any statically-significant difference between the average grades of the students in pre and post experiment of using multimedia in teaching computer numbering systems?

The experiment group consists of 32 students. The first lecture was given to the group using the traditional method which uses presentation and discussion. Then the second lecture was given to the same group using multimedia which uses sound and animation. Both lectures was ended with a test to study the impact of using multimedia in teaching computer numbering systems. The analysis result of the pre and post experiment showed that there are a statically-significant difference between the average grades of the students at a significant level of 0.05, which prove that using multimedia in the classroom will improve the students' academic achievements.