

Short lecture

## The Effect of Information and Communications Technology Application on Graph Theory Education

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### **Abstract**

In order to study the effect of information and communication technology on math learning, from two classes of mathematics students in Mazandaran teachers' university (Dr. Shariati Campus, Sari, Mazandaran, Iran), one class is selected as an experiment group and the other one as a control group.

In the experimental group subject graph theory is taught by using NEWGRAPH educational software which is a kind of dynamic interactive software. The same subject was taught the control group without using this software.

At the beginning of this course, a pretest and at the end a post test was held. The results of using unilateral covariance analysis indicated that the experimental group's scores are better than those of the control group in significance level  $p < 0.5$ . This research, also, is going to answer the following questions:

To teach mathematics, whether teaching should be totally done by using modern technology or by combined other technologies?

Which strategies can we use except technology?