Investigate the effect of mobile learning over the critical thinking in higher education

Abstract:

The purpose of this study is to investigate the effect of mobile learning over the critical thinking in higher education. The volunteer sample in this experimental study consisted of 60 students in institute language in Tehran-Iran. The students' critical thinking disposition was measured by California Critical Thinking Disposition Inventory Scale (CCTDI). Also, the usefulness of mobile learning systems (UMLS), a questionnaire adapted by Motiwalla (2007), was used to collect data. The data was analyzed using descriptive statistical analysis techniques; T-test, mean and standard deviation. Overall, students' attitudes toward the usefulness of a mobile learning system improved significantly at the end of the experimental study. Also, it wasn't a significant difference in critical thinking between male and female in pre-test and post-test. It was found that after the study the students' creativity improved significantly. Furthermore, researchers found that outdoor experiences influenced students' attitudes positively. Additionally, results indicate that in this study, working collaboratively and sharing information were built into a group activity.