

Influence of Integration of Information Communication Technology on Performance in Chemistry among Public Secondary Schools in Kisumu County, Kenya

Ruth Atieno Otiang'a, M. A. Ayere and J. A. Rabari

Abstract

The purpose of present research was establishing influence of Integrating Information Communication Technology (ICT) on performance in chemistry among public schools. The results showed a moderate significant positive correlation (at a confidence level of .05 where $p=.05$): $r = .518$, $p=.033$ in 2017, ($p<.05$, $df = 1$) between available ICT resources and software in teaching and learning and performance. Results further indicated a moderate positive correlation $r = .560$, $p = .019$ in 2017, between e-revision papers and performance; e-topical questions had a moderate positive correlation coefficient ($p=.05$): $r = .610$, $P=.009$ and $r = .574$, $p = .016$ respectively for the year of analysis; Internet access in schools correlated moderately $r=.659$, $P=.004$ in 2017. Regression analysis $r^2 = .545$ meant 54.4%, ($p=.001$, $df = 1$) of variation in mean grade could be explained by variation in use of Internet. It was concluded that ICT when well utilized has positive influence on education.

Key words: Influence, Integration, Information Communication Technology, Performance.

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