

Application of Computer Skills in Teaching and Learning in Kenya; A Case of Public Secondary Schools in Machakos Sub- County

By

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ABSTRACT

This study investigates teacher application of computer skills in teaching and learning in public secondary schools in Machakos Sub County. The study objectives were: to establish the level of ICT training of teachers on application in teaching and learning, to assess the extent to which teacher competencies influence the use of computers in teaching and learning and to identify the barriers to ICT integration in teaching and learning. The study adopted descriptive survey design. The study sample was 21 secondary school head teachers and 126 teachers. Data was collected using questionnaires. The instruments were piloted and the reliability coefficient was found to be 0.79 for the head teachers questionnaire and 0.76 for the teachers questionnaire. Data was analyzed using descriptive statistical frequency tables, standard deviation and means; and presented in tables. Quantitative data was analyzed using Pearson's chi square and T-test. Study findings showed that majority of the head teachers and teachers had basic ICT literacy, while only a few of them integrate ICT in teaching and learning due to limited competency in ICT skills. Most of the secondary schools had computer laboratories but inadequate computers. The study recommends that secondary school teachers should be trained in ICT integration in their subject areas; and that head teachers should provide adequate computers and encourage teachers to use ICT in teaching and learning.

Keywords: Computer skills; application, teaching and learning, public secondary schools, barriers.

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