

**THE USE OF INFORMATION AND COMMUNICATION TECHNOLOGY IN THE
MANAGEMENT OF SECONDARY SCHOOLS IN KENYA: A CASE OF NANDI
NORTH SUB-COUNTY**

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ABSTRACT

The purpose of this study was to investigate the use of information and communication technology with a view of improving the efficiency of management of secondary schools in Nandi North Sub-County. The specific objectives were to; assess ICT resources in secondary schools, investigate the use of ICT applications on secondary schools management and find out challenges facing management in the use of ICT in Nandi North Sub- County. Descriptive survey design was used in this study. The study population was drawn from among school management. There were a total of 43 principals/deputies and 215 teachers. Purposive as well stratified random sampling was used to select the sample. The data collection instruments used in this study was developed by the researcher. They included questionnaires, interview schedule and observation. To ensure validity the instruments were given to experts for validation. The reliability of data collection instruments was determined from the pilot study where the researcher administered the research instruments to the Head teachers and teachers of two secondary schools in the neighboring district. The researcher administered questionnaires to the same respondents twice after a period of two weeks and the findings were correlated using Spearman Correlation Coefficient and accepted at 0.7. Data collected was organized, analyzed, interpreted and presented using descriptive and inferential statistics. The researcher assured the respondents of confidentiality. The research findings showed that majority of the teachers in Nandi North sub-county consider computer Labs, Interactive radio instruction for in-service management, Laptops and use of internet as ICT resources in secondary schools, ICT is used in planning, helps in curriculum management, helps in teacher management, helps to keep student records, helps in financial records, enhances communication, helps in fast data processing and helps in improving education quality and Secondary schools in Nandi North sub-county face numerous problems on ICT implementation as a management tool. The challenges identified included; initial cost of ICT equipment being high, inadequate training of instructors, inadequate infrastructure and sensitization of schools on ICT applications. The study recommends that; headteachers/teachers should be trained on proper use of ICT for effective ICT implementation and use as a management tool and the Initial costs of setup of an ICT centre should be brought down by Zero rating of tax on all ICT equipments and encouraging community participation in ICT implementations. There was a significant difference on all ICT resources used in Secondary schools an indication that computer Labs, Interactive radio instruction for in-service management, Laptops and use of internet are considered by teachers as important ICT resources in secondary schools in Nandi North sub-county. The finding of study will be useful to school administrators and management of secondary school by highlighting areas of ICT utility and how effective on management, thus enhancing efficiency in secondary school. The study will also be useful to other stakeholders such as the Ministry of Education, Teacher Service Commission, Kenya National Examination Council and Education Management System to access information of schools.