

**USE OF ICT IN MATHEMATICS CLASSROOM: OPPORTUNITIES AND  
CHALLENGES**

**A  
THESIS**

**BY  
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## LETTER OF CERTIFICATE

This is to certify that Mr. AjadAmit Kumar Madhukar, a student of academic year 2068/069 with Exam Roll No. 280957 (2070), Campus Roll No. 281/068, T.U. Regd. No. 9-2-589-245-2008 and Thesis No. 1180 has Completed his thesis under my supervision, during the period prescribed by the rules and regulation of Tribhuvan University, Nepal. The Thesis entitled" USE OF ICT IN MATHEMATICS CLASSROOM: OPPORTUNITIES AND CHALLENGES" embodies the result of his investigation conducting the period of three month at the Department of Mathematics Education, University Campus, Kirtipur Kathmandu. I, hereby recommend and forward that his thesis be submitted for the evaluation as partial requirement to award the Degree of Master of Education.

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Date.....

.....

AjadAmit Kumar Madhukar

## **ABSTRACT**

This study entitled “Use of ICT in Mathematics Classroom: Opportunities and Challenges” is a survey research. The main aim of this study was to investigate the perception of the mathematics teacher and their competencies towards the use of ICT in mathematics class to find out the opportunities and challenges’ to practice ICT at secondary level mathematics teacher and students. The study was survey and descriptive research design, in fact mixed (quantitative and qualitative) method was adopted in this research. The researcher used combined Questionnaire form for teachers and questionnaires’ for students were used as research tools. The Questionnaire administered among 28 teachers and 32 students from different sampled school of Dhanusha districts. The Chi-square test was used to investigate the perception, competencies and the judgment of mathematics teachers and students towards the use of ICT in Mathematics classes. The information from the interview and observation guideline of sample students and teachers obtained in qualitative form and data given from students and teachers Interview analyzed by cross match method.

The researcher found from this study that there were not a full proof plan to install ICT Tools into the school, no teacher training to operate special type of program into the school and especially in mathematics class. It was also found that there was a lack of relevant modern educational technology tool available in the school. although many of the respondent reply that they are interested in new technology that help him also to update their skill and knowledge and they use mostly smart phone to communicate online on the internet among their colleges.

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### **List of Abbreviations/Acronyms**

DVD	Digital Versatile Disc
BECTA	British Educational Communications and Technology Agency
ICT	Information and Communication Technology
MoE	Ministry of Education
WWW	World Wide Web