

**ATTITUDE OF MASTER LEVEL STUDENTS TOWARDS ICT IN  
MATHEMATICS EDUCATION**

**A  
THESIS**

**BY  
AMBA DATT JOSHI**

**FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF MASTER OF EDUCATION**

**SUBMITTED  
TO  
DEPARTMENT OF MATHEMATICS EDUCATION  
CENTRAL DEPARTMENT OF EDUCATION  
UNIVERSITY CAMPUS  
TRIBHUVAN UNIVERSITY  
KIRTIPUR KATHMANDU**

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### Letter of Certificate

This is certify that Mr. Amba Datt Joshia student of academic year 2070/71 with Campus Roll No: 236, Thesis number 1212, Exam Roll No: 280365 and T.U. registration number 9-2-329-348-2009 has completed this thesis under supervision and guidance of Mr. Abatar Subedi during the period prescribed by the rules and regulations of Tribhuvan University, Kirtipur, Kathmandu, Nepal. This thesis entitled on “**Attitude of Master Level Students towards ICT in Mathematics Education**” has been prepared based on the results of his investigation conducted during the prescribed period under the Department of Mathematics Education, Central Department of Education, University Campus, Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommend and forward that his thesis be submitted for the evaluation as the partial requirements to award the degree of Master of Education.

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(Assoc. Prof. Laxmi Naryan Yadav)

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Date: .....



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### Letter of Approval

This thesis entitled “**Attitude of Master Level Students towards ICT in Mathematics Education**” submitted by Mr. Amba Datt Joshi in partial fulfillment of the requirements for the Master's Degree in Education has been approved.

Viva Voce Committee

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1. Assoc. Prof. Laxmi Narayan Yadav

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### **Recommendation for Acceptance**

This is to certify that Mr. Amba Datt Joshi has completed his M. Ed. thesis entitled “**Attitude of Master Level Students towards ICT in Mathematics Education**” under my supervision during the period prescribed the rules and regulations of Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommend and forward his thesis to the Department of Mathematics Education to organize final viva-voce.

.....

(Mr. Abatar Subedi)

Supervisor

Date: .....

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## **Dedication**

This work is affectionately dedicated to my father **Mr. Mani Raj Joshi**

And mother **Mrs. Pashupati Joshi**

Who even in a very difficult situation gave me a great span of them

Life for what I am now.

### **Declaration**

This thesis contains no material which has been accepted for the award of other degree in any institutions. To the best of knowledge and belief this thesis contains no material previously published by any authors except due acknowledgement has been made.

.....

(Amba Datt Joshi)

Date: .....

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At first, I would like to express my sincere gratitude to Mr. Abatar Subedi, who is my honorable teacher as well as research supervisor helped me extremely by providing his valuable time for all sorts of ideas, techniques and information during the research from the beginning to the end. His valuable suggestions are over memorable.

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Date: .....

Amba Datt Joshi



### Abstract

This study is based on mixed design entitled “Attitude of Master Level Students Towards ICT in Mathematics Education.” The purpose of this research is to find the attitude of master level students towards ICT in mathematics education and to compare the attitude between boy’s and girl’s students towards ICT in mathematics education.

The sample of the study consisted from Tribhuvan University Kirtipur, Kathmandu. The data were collected from questionnaire and interview. Altogether 100 students were considered as the sample (85 boys and 15 girls) by random sampling strategy. For this, a set of questionnaire was developed as the tool. To collect the data from interview guideline four students were selected using purposive sampling method. The attitude of students measured in the five categories rating scale of Likert. The collected data was tabulated and analyzed by using SPSS software to get the value of statistics  $\chi^2$ - test, percentage, mean and standard deviation and t-test for objective first and second respectively. The findings, mean value of boy’s students is 301.18 and girls students is 54.18. In the comparison of boys and girl’s attitude t-value of the statements was 6.31 which does not lie its tabulated value 1.96. So, alternate hypothesis is rejected. This shows that there is significance difference between the attitude of boy’s students and girls students.

The study concluded that there is a positive attitude towards ICT in mathematics education and significance difference between the attitude of boy’s and girl’s students towards ICT in mathematics education. It is also concluded that there is well designed course, sufficient materials and equipment’s in ICT lab, effective learning activities, good internet access and evaluation system of ICT in mathematics education.

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### Abbreviations

B. ED	:	Bachelor in Education
DEO	:	District Education Officer
DOE	:	Department of Education
F.M	:	Frequency Modulation
ICT	:	Information and Communication Technology
IT	:	Information Technology
ISP	:	Internet Service Provider
MOE	:	Ministry of Education
NCED	:	National Center for Educational Development
NCTM	:	National Council of Teachers of Mathematics
OHP	:	Over Head Projector
OLPC	:	One Laptop per Child
SMS	:	Short Message Service
SPSS	:	Statistical Package for Social Science
TAM	:	Technology Acceptance Model
TU	:	Tribhuvan University
UNESCO	:	United Nations Educational Scientific and Cultural Organization