

PARTICIPATION OF GIRLS IN MATHEMATICS AT UNIVERSITY LEVEL

A

THESIS

BY

SOBITA GHIMIRE

IN 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

2019

Letter of Certification

This is to certify to **Sobita Ghimire** a student of academic year 2071/72 with exam Roll No. 28710333, thesis number 1372 and T.U. Regd. No. 9-2-593-108-2010 has completed her thesis under supervision of Lecturer Ms. Sarala Luitel during the period prescribed by the rule and regulation of Tribhuvan University, Nepal. The thesis entitled “**Participation of Girls in Mathematics at University Level**” has been prepared based on results of his investigation. I, here by recommended and forward that her thesis be submitted for evaluation as the partial requirements to the degree of Master of Mathematics Education.

.....

Assoc. Prof. Laxmi Narayan Yadav

Head of Department

Date: 25 March 2019

LETTER OF APPROVAL

A thesis by Sobita Ghimire entitled “**Participation of Girls in Mathematics at University Level**” has been approved for the partial fulfillment of the Requirements for Degree of Master of Mathematics Education.

Committee for Viva-Voce

Signature

Assoc. Prof. Laxmi Narayan Yadav

.....

(Chairman)

Prof. Dr. Hari Prasad Upadhaya

.....

(External)

Ms. Sarala Luitel

.....

(Member)

Date: 29 April 2019

RECOMMENDATION FOR ACCEPTANCE

This is to certify that **Ms. Sobita Ghimire** has completed her thesis entitled **“Participation of Girls in Mathematics at University Level”** under my supervision during the period prescribed by the rules and regulation of Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommend and forward her thesis to the Department of Mathematics Education to organize final viva-voce.

.....

Ms. Sarala Luitel

Supervisor

Date:

©2019

Copyright by Sobita Ghimire

This document is copyright material, under law,

No parts of this document may be reproduced

Without the expressed permission of the researcher.

All right Reserved.

DEDICATION

Honestly dedicated

To

My parents

Ramji Ghimire & Mira Ghimire

DECLARATION

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

Date:

.....

Sobita Ghimire

ACKNOWLEDGEMENTS

I express my gratitude to the respected supervisor Ms. Sarala Luitel, Lecturer at the Department of Mathematics Education in Central Department of Education T.U, for her valuable suggestion, guidelines, encouragement and constructive suggestion while conducting this research study.

Similarly, I would like to express my sincere gratitude to Associate Prof. Laxmi Narayan Yadav, Head of Department of Mathematics Education for managing such a co-operative environment, Prof. Dr. Min Bdr Shrestha, Prof. Dr. Binod Dhakal, Mr. Abtar Subedi, Mr. Dipak Mainali, Mr. Krishna Prasad Adhikari, Mrs. Hom Kumari Adhikari, and all my respective teachers under the Department of Mathematics in Education at T.U. Kirtipur for their valuable comments and suggestion to bring this work into present form.

I am also very much indebted to the students who are studying mathematics education at Tribhuvan University Central Department of Mathematics Education for their kind cooperation on data collecting time and special thanks to the girls who share their experience on learning mathematics and share their problem with me.

Finally, I wish to express my gratitude to those who may have contributed to this study directly or indirectly.

25 March, 2019

.....

ABSTRACT

This study focused on girl`s participation in mathematics at University level. The objectives of this study were to identify the participation of girls in mathematics at University level and find out the problems faced by girls while learning mathematics. In dealing with such objectives, I used qualitative research design and Phenomenological approach to explore the multiple realities. To meet the objectives researcher selected four mathematics classroom and five mathematics girls who are studying in the sampled four mathematics classroom. Classroom and girls were selected on the basis of purposive sampling. In this study researcher used classroom observation form and interview schedule as a research tool. For this study researcher observed fifteen days in deeply on sample classroom and sample girls. The collected data were analyzed with the help of descriptive method.

The findings of this phenomenological study show that the participation of girls in mathematics isn`t similar to boys. Girls are weak rather than boys on some approach that are leading the group, classroom submission, involving in extra-curricular activities. The participation of girls on classroom attendance and interaction with peers seen to be good. It also found that girls have many difficulties in learning mathematics. Early marriage is the main problems that faced by girls. It has also concluded that social belief system and teacher behavior towards girls would be positive for empower girls on University Education.

TABLE OF CONTENT

	Page No.
<i>Letter of Certification</i>	<i>i</i>
<i>Letter of Approval</i>	<i>ii</i>
<i>Recommendation for acceptance</i>	<i>iii</i>
<i>Copyright</i>	<i>iv</i>
<i>Dedication</i>	<i>v</i>
<i>Declaration</i>	<i>vi</i>
<i>Acknowledgements</i>	<i>vii</i>
<i>Abstract</i>	<i>viii</i>
<i>Table of Content</i>	<i>ix</i>
<i>List of Figure</i>	<i>xi</i>
<i>List of Table</i>	<i>xii</i>
<i>Acronyms/Abbreviation</i>	<i>xiii</i>
Chapters	
I: INTRODUCTION	1-7
Background of the study	
Statement of the Problem	
Objectives of the study	
Significance of the study	
Delimitation of the Study	
Definition of related Terms	
II: LITERATURE REVIEW	8-20
Empirical Literature	
Theoretical Review	
Conceptual Framework	16
III: METHODS AND PROCEDURES	20-26

Research Design	
Respondents of the Study	
Data Collection Tools	
Classroom Observation Form	22
Interview Schedule	
Standardization of the Tools	
Data Collection Procedures	
Method of Data Analysis	
IV: ANALYSIS AND INTERPRETATION OF DATA	26-41
Section 1: Data Analysis from Classroom Observation	27
Section 2: Problem Faced by Girls While Learning Mathematics	34
V: SUMMARY, FINDINGS, CONCLUSION AND RECOMMENDATION	42-46
Summary	
Finding	
Conclusions	
Recommendation for Further Study	
Refernces	
Appendix-A	
Appendix-B	

LIST OF FIGURE

Figure 1: Conceptual framework of Participation of girls in mathematics at University level.

LIST OF TABLE

Table 1: Result obtained from observation

Acronyms/Abbreviation

M.ED	:	Master of Education
T.U	:	Tribhuvan University
CERID	:	Research Center for Education Innovation and Development
Prof.	:	Professor
B. ED	:	Bachelor in Education