FACTORS AFFECTING LEARNING MATHEMATICS AT SECONDARY LEVEL

Α

THESIS

BY

SURYA BAHADUR GHALAN

FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER IN EDUCATION



SUBMITTED

TO

DEPARTMENT OF MATHEMATICS EDUCATION
CENTRAL DEPARTMENT OF EDUCATION
UNIVERSITY CAMPUS
TRIBHUVAN UNIVERSITY
KIRTIPUR, KATHMANDU
NEPAL
2015

i

FACTORS AFFECTING LEARNING MATHEMATICS AT SECONDARY LEVEL

A THESIS BY SURYA BAHADUR GHALAN

FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER IN EDUCATION

SUBMITTED

TO

DEPARTMENT OF MATHEMATICS EDUCATION
CENTRAL DEPARTMENT OF EDUCATION
UNIVERSITY CAMPUS
TRIBHUVAN UNIVERSITY
KIRTIPUR, KATHMANDU
NEPAL
2015

LETTER OF CERTIFICATE

This is to certify that Mr. Surya Bahadur Ghalan, students of academic year 067/068 with the campus Roll No. 1334, T.U. Registration number 9-1-240-642-2002, thesis number 1015 and examination symbol number 281611 (2069) and has completed his thesis under my supervision for the period prescribed by the rules and regulations of T.U., Nepal. The thesis entitled "Factors Affecting Learning Mathematics at Secondary Level" embodies the results of his investigation concluded during the period 2014/15 under the Department of Mathematics Education, University Campus, Kirtipur, Kathmandu. I recommend and forward that his thesis be submitted for the evaluation for awarding the degree of Master of Education.

(Asso. Prof. Mr. Bed Raj Acharya)	(Asso. Prof. Mr. Laxmi Narayan Yadav)
Supervisor	Head
Date :	

LETTER OF APPROVAL

THESIS

\mathbf{BY}

SURYA BAHADUR GHALAN

Entitled

FACTORS AFFECTING LEARNING MATHEMATICS AT SECONDARY LEVEL

has been approved in partial fulfillment for the requirements for degree of the Master of Education

	Committee for Viva-Voice	Signature
1.	Mr. Laxmi Narayan Yadav (Chairman)	
2.	Prof. Dr. Hari Prasad Upadyay (Member)	
3.	Associate Prof. Mr. Bed Raj Acharya (Member)	
Date :		

ACKNOWLEDGEMENT

First of all, I want to thank Department of Mathematics Education, Central Department of Education, Kirtipur, for providing me support and opportunity to carry out the research work.

I am highly indebted to my thesis guide Associate Professor Mr. Bed Raj Acharya, who equipped me with all sort of basic concepts and technique essential to carry out this study. I want to extend my sincere gratitude for his patience, kindness, proper guidance, supervision and invaluable suggestions that gave me a kind of inspiration to accomplish my thesis with confidence in all stages of the study.

Similarly, my sincere gratitude goes to Associate Professor Mr. Laxmi Narayan Yadav, Head of Mathematics Education Department, Prof. Dr. Hari Prasad Upadhyay, Chairman of Mathematics and Computer Science Education Subject Committee and other respected Lecturers of Department of Mathematics Education, Central Department of Education, Kirtipur, Kathmandu for their invaluable comments and suggestions that led me to accomplish this thesis.

At the same time, I wish to express my sincere appreciation to the school family of sampled SLC graded students. I must extend my hearty thanks Deepak Parajuli and other friends who gave me the constant inspiration and suggestions to bring this thesis in these complete form special thanks goes to Ram Krishna Maharjan for his help in computer setting.

Last but not least, I wish to acknowledge my wife Una Kumari Lama and my daughter Kripa Ghalan, brother Sandesh Ghalan, sister-in-law Mithu Maya Tamang and sister Mina Ghalan. Who, even under at difficult situation devoted a great span of their times in making me what I am now.

Surya Bahadur Ghalan

ABSTRACT

This is a study aimed at investigating Factors Affecting Learning Mathematics at Secondary Level which affects the learning of mathematics. The objectives of this study were to identify the affects of learning in mathematics and to identify the strategies taken by school to promote mathematics learning. This study is qualitative in nature as well as descriptive use. This study was conducted with the sample of 8 students, 2 parents, 2 head teacher and two mathematics teachers of Bhandara Higher Secondary School and International Model English School of Khaireni VDC of Chitwan district. In-depth interview with students, head teacher, math teacher and parents were taken and collected information was analyzed with the help of theoretical and conceptual framework developed by the researcher.

The finding of the study shows that the traditional type of exercise in teaching-learning activities was the one of the causes of poor learning of mathematics. No proper interaction activities were done between teachers and students. And lack of proper guidance by experienced and qualified teachers to the students is the one of the issues of poor learning at mathematics. The school policies were not sufficient to address the need of low learning. There was a communication gap between teacher and parents.

Classroom practices and curriculum are closely linked. Learning of students is always affected by different variables such as schools learning environment, facilities at home and so on because of concern about low levels of mathematical attainment, new recommendation for classroom practices have emerged over the last decade that have aimed at allowing students to under stand mathematics concept, rather than memories fact. Teacher's belief about nature and purpose of mathematics and how students learn have a powerful effect on the practices of teaching. New policies of school seems to have better educational attainment if the total school family cooperate each other and support from own area. Government should make the policies for enhancing the learning of mathematics, not only the factor of causes failure in mathematics.

TABLE OF CONTENTS

Lette	er of Approval	i
Lette	er of Certificate	ii
Ack	nowledgements	iii
Abs	tract	iv
List	of Contents	v
Cha	pters	
I	INTRODUCTION	1-7
	Chapter Overview	1
	Background of the Study	1
	Statement of the Problem	4
	Objectives of the Study	5
	Significance of the Study	6
	Delimitation of the Study	6
	Definition of the Related Term	7
II	REVIEW OF RELATED LITERATURE	8-21
	Chapter Overview	8
	Empirical Review	8
	Conclusion	16
	Theoretical Construction	17
	Theoretical Understanding	18
	Conceptual Framework	21
III	METHODS AND PROCEDURES	22-24
	Chapter Overview	22
	Design of the Study	22
	Population of the Study	22

	Sample and Sampling Strategy	23
	Study Area/Field	23
	Data Collection Tools and Techniques	23
	Data Collection Procedure	24
	Data Analysis Procedure	24
IV	ANALYSIS AND INTERPRETATION OF DATA	25-34
	Chapter Overview	25
	School Related Factors	26
	Textbook	26
	Peer Group	27
	Teacher Competency	28
	Class Size	29
	Amount of Homework	30
	Out of School Related Factors	31
	Home Environment	31
	Interest of Learner	32
	Time Schedule	33
	School's Policies for Learning Mathematics	33
V	FINDINGS, CONCLUSIONS AND IMPLICATION	35-37
	Chapter Overview	35
	Findings	35
	Conclusions	36
	Implication	37
REI	FERENCES	38-40
API	PENDIX	41-46