

**MOTIVATIONAL FACTORS FOR SELECTING OPTIONAL MATHEMATICS AT
SECONDARY LEVEL**

**THESIS
BY
BHARAT SINGH DHAMI**

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

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

2017

LETTER OF CERTIFICATE

This is to certify that Mr. Bharat Singh Dhama a student of academic year 2069/070 with campus Roll No.692, Thesis No. 1125 Exam Roll No: 280993/2070 and T.U. Registration No: 9-2-414-95-2008 has completed his thesis under my supervision during the period of 2073 Bhadra to 2074 Aswin. The thesis entitled “**MOTIVATIONAL FACTORS FOR SELECTING OPTIONAL MATHEMATICS AT SECONDARY LEVEL**” has been prepared based on the result of his investigation. I recommend and forward that his thesis be submitted for the evaluations as the partial requirements to awarding the degree of Master of Education.

.....

Mrs. Sarala Luitel

Supervisor

Date.....

.....

Asso. Prof. Laxmi Narayan Yadav

Head

LETTER OF APPROVAL

Thesis

By

BHARAT SINGH DHAMI

Entitled

**“MOTIVATIONAL FACTORS FOR SELECTING OPTIONAL MATHEMATIC AT
SECONDARY LEVEL”**

has been approved in partial fulfillment of the requirements of the Master’s Degree of
Education.

Committee for the Viva-Voce

Signature

Asso. Prof. Laxmi Narayan Yadav

.....

Chairman

Prof. Dr. Hari Prasad Upadhyay

.....

Member

Mrs. Sarala Luitel

.....

Member

Date

ACKNOWLEDGEMENT

This task of thesis writing has really taken me to a newer world. As a result, I have felt a new experience in the context of my study. I have come to the realization that it is a part of the intensive study that gives a person an insight into self-study. In course of writing this thesis, I have been inspired by the invaluable cooperation, suggestion and guidance and counseling of various persons. Therefore, first of all, I would like to express my sincere gratitude to my respected thesis supervisor Mrs. Sarala Luitel, Department of Mathematics Education, T.U. for her guidance, encouragement, useful comments and invaluable suggestions to complete the task. Without her regular encouragement and constructive feedback, this work would never see the light of completion.

I am grateful to Head of the Department Asso. Prof. Laxmi Narayan Yadav, Prof. Dr. Hari Prasad Upadhyay and the research committee for letting me to carry out this research. I am equally thankful to all respondents who kindly provided me their information required to accomplish this study. Specially, I would like to thank to Mr. Hari Prasad Pokharel, Mr. Krishna Sapkota and Mr. Dhalak Khadka all the friends for providing materials, ideas and helping for tying regarding this study. I can never miss this opportunity to extend my especially thanks to my mom, family members and relatives who have always been with me in every hardship.

.....

Bharat Singh Dhama

ABSTRACT

The main target of this research was to find out the motivational factor to select optional mathematics at secondary level. The research was conducted in only on school Omega Higher Secondary School Kumaripati, Lalitpur by purposive sampling method. The tools used in data collection procedure are class observation note and face to face interview for students, optional mathematics teacher, parents and principal of the school. The obtained data was collected on the basis of conceptual understanding of the study and then data was analyzed by descriptive survey. Though the nature of the study was qualitative to achieve the objectives. The previous study of research reports and journals were guide to the study. The researcher categorized the motivational factors into four different parts as: Students related factor, parents related factor, teacher related factor, science and technology related factor.

The above motivational factors are due to school policy of admission, student's good pre- knowledge, and regularity, labor in learning mathematics, good economic and educational back ground of parents, teachers' motivation towards students, good quality of teacher, proper teaching learning environment and better opportunity of mathematics rather than other subject.

Overall, student's interest and positive feeling, pre concept of mathematics, positive explanation about mathematics from teacher, parents and other person side and school policy motivated the students in optional mathematics. Hence, this research was successful to identify the motivational factors for selecting optional mathematics at secondary level.

TABLE OF CONTENT

	Page No.
<i>Letter of approval</i>	<i>i</i>
<i>Letter of certificate</i>	<i>ii</i>
<i>Acknowledgements</i>	<i>iii</i>
<i>Abstract</i>	<i>iv</i>
<i>Table of contents</i>	<i>v</i>
<i>List of abbreviation</i>	<i>vii</i>
CHAPTERS	
I. INTRODUCTION	1-6
Background of the Study	1
Statement of the Problem	3
Objectives of the Study	4
Significance of the Study	4
Delimitation of the Study	5
Definitions of the Key Terms	6
II. REVIEW OF RELATED LITERATURES	7-15
Empirical Review	7
Conceptual Framework	13
III. RESEARCH METHODS AND PROCEDURES	16-19
Research Designs	16
Sample of the Study	16
Tools of Data Collection	17
Reliability and Validity	18
Data Collection Procedure	18
Data Analysis and Interpretation Procedure	19

IV. ANALYSIS AND INTERPRETATION OF DATA	20-37
Situation of School	20
Student Related Factors	21
Prior Knowledge of Students	22
Regularity	23
Labour in Learning Mathematics	24
Parents Related Factors	26
Educational Background	26
Economic Status of Family	27
Parents Care and Support	28
Teacher Related factors	29
Motivation of Students	29
Assessment System	30
Quality of Teacher	31
Science and Technology Related Factors	32
Teaching Learning Environment	33
Opportunity of Mathematics	35
V. SUMMARY, FINDING, CONCLUSION AND RECOMMENDATION	38-41
Summary of Study	38
Major finding	38
Conclusions	40
Recommendations	40
References	
Appendixes	

LIST OF ABBREVIATIONS

- AAUW Association of American University for Women
- B. A. Bachelor's in Art
- B. Ed. Bachelor's in Education
- M. A. Master's in Art
- M. Ed. Master's in Education
- NESP National Education System Plan
- OALD Oxford Advanced Learner's Dictionary
- TU Tribhuvan University
- USA United States of America
- UNRISD United Nations Research Institute of Social development
- CDC Curriculum Development Center
- MDG Millennium Development Goal
- INGO International Government Office
- DEO District Education Office
- RP Resource Person