

**RELATIONSHIP BETWEEN MACROECONOMIC
VARIABLES AND STOCK PRICE
IN NEPAL**

A Thesis

*Submitted to the Central Department of Economics,
Tribhuvan University, Kirtipur, Kathmandu, Nepal,*

in Partial Fulfillment of the Requirements

for the Degree of

MASTER OF ARTS

in

ECONOMICS

By

GANGARAM BHATTARAI

Roll No.:-59/2066

Central Department of Economics

Tribhuvan University, Kirtipur

Kathmandu, Nepal

April, 2014

LETTER OF RECOMMENDATION

This thesis entitled “*Relationship between Macroeconomic Variables and Stock price in Nepal*” has been prepared by Mr.Gangaram Bhattarai under my supervision. I hereby recommend this thesis for examination to the Thesis Committee as a partial fulfillment of the requirements for the Degree of MASTER OF ARTS in ECONOMICS.

.....
Mr. Ananta Kumar Mainaly
Associate Professor
Thesis Supervisor

6th April, 2014

APPROVAL SHEET

We clarify that this thesis entitled “*Relationship between Macroeconomic Variables and Stock price in Nepal*” submitted by Mr. Gangaram Bhattarai to the Central Department of Economics, Faculty of Humanities and Social Science, Tribhuvan University, in partial fulfillment of the requirements for the Degree of Masters of Arts in Economics has been found satisfactory in scope and quality. Therefore, we accept this thesis as a part of the said degree.

Thesis Committee

.....

Dr. Ram Prasad Gyanwali

Associate Professor, Central Department of Economics

Head of Department

.....

Dr. Yogesh Ranjit

Associate Professor, Patan Multiple Campus

External Examiner

.....

Mr. Ananta Kumar Mainali

Associate Professor, Central Department of Economics

Thesis Supervisor

6th April, 2014

ACKNOWLEDGEMENTS

This thesis entitled "*Relationship between Macroeconomic Variables and Stock price in Nepal*" has been prepared for partial fulfillment of the requirements for the Degree of Masters of Arts in Economics.

I am pleased to take this opportunity to express my heartfelt gratitude to my thesis supervisor Associate Prof. Ananta Kumar Mainaly, the Central Department of Economics, University Campus, Kirtipur, Tribhuvan University for his valuable guidance, encouragement and suggestions throughout my work. Similarly, I am grateful to Prof. Dr. Ram Parsad Gyanwaly, the Head of the Central Department of Economics for his suggestions and guidance. I also feel privileged to express my gratitude to all the teachers of Central Department of Economics for their gracious response to my queries.

I would like to thank all the non-teaching members of Central Department of Economics and all the staff members of Central library, T.U. Kirtipur, for the help they extended to me during this study in very many ways.

Similarly, my heartfelt thanks goes to Mr. Khagendra Katuwal, the lecturers of Central Department of Economics for his valuable suggestions and ideas.

I am heartily indebted to Babita Bhattarai who provide me incredible help in data transformation and guidelines, my friends and especially Shobha who encouraged me all the moment to complete this work in time.

I bear sole responsibility for any errors and discrepancies that might have occurred in .this Study.

Gangaram Bhattarai

TABLE OF CONTENTS

	Page No.
LETTER OF RECOMMENDATION	i
APPROVAL LETTER	ii
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv-v
LIST OF TABLES	vi
LIST OF FIGURES	v
LIST OF ACRONYMS	ix
CHAPTER ONE: INTRODUCTION	1-6
1.1 General Background	1
1.2 Statement of the Problem	3
1.3 Objectives of the Study	4
1.4 Significance of the Study	4
1.5 Limitations of the Study	5
1.6 Organization of the Study	6
CHAPTER TWO: REVIEW OF LITERATURE	7- 23
2.1 Introduction	7
2.2 Theoretical Literature Review	7
2.2.1 The Capital Asset Pricing Model	7
2.2.2 The Arbitrage pricing model	13
2.3 The Empirical Review	18
2.3.1 Review of International Literature	18
2.3.2 Review of National Literature	21
2.4 Conclusion	23

CHAPTER THREE: DATA AND METHODOLOGY	24-36
3.1 Introduction	24
3.2 Estimation of NEPSE Equation	24
3.2.1 The Empirical model	24
3.2.2 Estimation Methodology	25
3.2.3 Hypothesis	28
3.3 Econometric Tools	29
3.3.1 Time Series Properties of the Variables	29
3.3.2 Cointegration	29
3.3.3 Error Correcting Model	30
3.3.4 Diagnostic and Other Tests	31
3.4 The Data	36
CHAPTER FOUR: DATA ANALYSIS	37-44
4.1 Time Series Properties of the Variables	37
4.2 Estimation Results of Trend Relationship	40
4.3 Stability Test	44
CHAPTER FIVE: SUMMARY, CONCLUSIONS AND RECOMMENDATIONS	45-47
5.1 Summary of the Findings and Conclusions	45
5.2 Recommendations	46
5.3 Areas of Further Study	46
REFERENCES	48-53
APPENDICES	

LIST OF TABLES

	Page No.
Table 3.1: Variable Details	25
Table 4.1: ADF Test Results	39
Table 4.2: Bound Test	40
Table 4.3: Full –information of ARDL Estimate Results	41
Table 4.4: Estimated Long Run Coefficients using the ARDL Approach	43

LIST OF FIGURES

	Page No.
Figure 2.1: Relationship between the beta & the assets expected rate of return	9
Figure 4.1: Time Series Plot of Ygt and NEPSE	38
Figure 4.2: Time Series Plot of Broad money supply	38
Figure 4.3: Time Series Plot of Inflation	38
Figure 4.5: Plots of CUSUM Statistics	
Figure 4.6: Plots of CUSUMSQ Statistics	

LIST OF ACRONYMS

AIC	-	Akaike Information Criterion
APT	-	Arbitrage pricing theory
ADO	-	Asian Development Outlook
ARDL	-	Auto Regressive Distributed Lag Model
CAPM	-	Capital Asset pricing model
CBS	-	Central Bureau of Statistic
CPI	-	Consumer Price Index
DDM	-	Dividend discount model
DPS	-	Dividend per share
EPS	-	Earning price per share
FY	-	Fiscal year
GDP	-	Gross Domestic Product
JB	-	Jarque Berra Test
LM	-	Lagrange Multiplier Test
IMF	-	International Monetary Fund
MOF	-	Ministry of Finance
OLS	-	Ordinary Least Squares
NRB	-	Nepal Rastra Bank
NEPSE	-	Nepal stock exchange
RESET	-	Regression Specification Error Test
SML	-	Security market line
SBC	-	Schwarz Bayesian Criterion
STIR	-	Short term interest rate
UK	-	United Kingdom
USA	-	United States of America