

# **GCC Stock Markets, Weak-Form Efficiency**

Submitted by

***Ahmed Dawood Abdo Al-Mashari***

MS-Finance  
01-297152-001



A thesis presented to Bahria University, Islamabad in partial fulfillment of the requirements for the  
degree of MS-Finance

***May 2017***

**COPYRIGHT PAGE**

***Ahmed Dawood Abdo Al-Mashari***

**ALL RIGHTS RESERVED**

**SUBMISSION FORM OF THESIS FOR HIGHER RESEARCH DEGREE BAHRIA  
UNIVERSITY, ISLAMABAD**

Candidate Name: Ahmed Dawood Abdo Al-Mashari

I submit **(02)** copies of thesis for examination for the degree of MS-Finance, the thesis titled:  
**GCC Stock Markets, Weak-Form Efficiency**

Candidate Signature: \_\_\_\_\_

Date: \_\_\_\_\_

---

**Certificate of Principal Supervisor**

I \_\_\_\_\_ being the principal Supervisor for the above student, certify that thesis is in a form suitable for examination and that the candidate has pursued his course in accordance with the Rules of the University.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

---

**Recommendation for Examination**

I recommend that the thesis be examined.

Principal Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

---

**Not Recommended for Examination**

I recommend that the thesis be examined.

Principal Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

---

**Statement by the Head of Department**

I support the submission of the thesis of the above-named student for examination under the University Rules for higher degrees.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

---

**APPROVAL SHEET**  
**SUBMISSION OF HIGHER RESEARCH DEGREE THESIS**

Candidate's Name: **Ahmed Dawood Abdo Al-Mashari**

Discipline: **MS-Finance**

Faculty/Department: **Management Sciences**

*I hereby certify that the above candidate's work, including the thesis, has been completed to my satisfaction and that the thesis is in a format and of an editorial standard recognized by the faculty/department as appropriate for examination.*

Signature(s):

Principal Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

The undersigned certify that:

1. The candidate presented at a pre-completion seminar, an overview and synthesis of major findings of the thesis, and that the research is of a standard and extent appropriate for submission as a thesis.
2. I have checked the candidate's thesis and its scope, format; editorial standards are recognized by the faculty/department as appropriate.

Signature(s):

**Dean/Head of Department:**

Date: \_\_\_\_\_

## DECLARATION OF AUTHENTICATION

*I, Ahmed Dawood Abdo Al-Mashari the student of MS-Finance in the Department of Management Sciences, Bahria University. Islamabad, certify that the research work presented in this thesis is to the best of my knowledge, my own. All sources used and any help received in the preparation of this dissertation have been acknowledged. I hereby declare that I have not submitted this material, either in whole or in part, for any other degree at this or other institution.*

Name: (Ahmed Dawood Abdo Al-Mashari)

Date: \_\_\_\_\_

## **ACKNOWLEDGEMENTS**

“Say-for Allah’s is the final argument –Had He Willed He could indeed have guided all of you” (AL-Quran 6:149).

I bow my head before Almighty Allah, who blessed me with sound health, talented teachers, prays of elders and enable me to complete my thesis.

I am extremely grateful to my Supervisor Dr. Taqadus Bashir, for her valuable input, suggestions, guidance, and great help in reviewing my thesis and making sure that it meets all the requirements. I am indebted to her.

My special Acknowledgments to the prayers and help of my family members, special thanks to my parents, my brothers, and my sisters for helping me through good and bad times during my studies without them I would have been worn out a long time.

**(Ahmed Dawood Abdo Al-Mashari)**

## **DEDICATION**

I would like to dedicate this research work to my esteemed parents, my caring brothers and lovely sisters, who extraordinary support me with love, prayers, and encouragement.

## **ABSTRACT**

After the Malkiel and Fama explanation of market efficiency conditions in 1970, twenty years of huge effort in research has been made to study different markets' efficiency which became critical for both investors and stock markets. GCC countries markets where the subject of research in different ways of data, analysis and methods, however, this study is expanded to include data from all the GCC countries' stock markets and Dubai financial market. Moreover, Stock market returns indices for daily, weekly and monthly are studied for the period from January 1st, 2011 to December 30th, 2015. The study is mainly focused on whether the GCC market is efficient or inefficient. Multiple tests are used in this study including Co-integration, VAR and Unit root (ADF) which is used for stationary check. Results of both (Co-integration and VAR) tests revealed that a large portion of the GCC markets are inefficient in the weak form.

# Table of Contents

ACKNOWLEDGEMENTS .....	i
ABSTRACT .....	iii
List of Tables .....	v
1. INTRODUCTION .....	1
1.1. BACKGROUND OF STUDY .....	1
1.2. OBJECTIVE OF THE STUDY .....	3
1.3. RESEARCH QUESTION .....	3
1.4. THEORETICAL FRAMEWORK .....	3
1.5. HYPOTHESIS .....	5
1.6. RESEARCH GAP .....	5
1.7. SIGNIFICANCE OF THE STUDY .....	5
2. LITERATURE REVIEW .....	7
3. RESEARCH METHODS .....	11
3.1. DATA & SAMPLE .....	11
3.2. DATA ANALYSIS .....	11
4. DATA ANALYSIS RESULTS .....	14
5. FINDINGS & CONCLUSION .....	21
REFERENCES .....	22

## List of Tables

Table 1 Descriptive Statistics: Daily Market Returns.....	14
Table 2 Descriptive Statistics: Weekly Market Returns.....	14
Table 3 Descriptive Statistics: Monthly Market Returns.....	15
Table 4 ADF unit root test for Daily Returns .....	15
Table 5 ADF unit root test Weekly Returns.....	15
Table 6 ADF unit root test Monthly Returns .....	16
Table 7 Co-integration Results (Daily) .....	16
Table 8 Co-integration Results (Weekly).....	16
Table 9 Co-integration Result (Monthly).....	17
Table 10 Results of VAR (Daily) .....	18
Table 11 Results of VAR (Weekly) .....	18
Table 12 Results of VAR (Monthly).....	19
Table 13 Summary Results based on Co-integration 5%CV .....	19
Table 14 Summary Results based on Co-integration 1%CV .....	20
Table 15 summary Results based on VAR .....	20