# THE RELATIONSHIP BETWEEN INTELLECTUAL CAPITAL AND FIRM PERFORMANCE: DIFFERENTIATING BETWEEN ACCOUNTING-BASED AND MARKET-BASED PERFORMANCE (Empirical Study on LQ45 Company Listed in Indonesian Stock Exchange 2018-2019)



Written by:

Hadiyan Prayoga

20180420247

INTERNATIONAL PROGRAM OF ACCOUNTING
FACULTY OF ECONOMICS AND BUSINESS
UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

2021

# THE RELATIONSHIP BETWEEN INTELLECTUAL CAPITAL AND FIRM PERFORMANCE: DIFFERENTIATING BETWEEN ACCOUNTING-BASED AND MARKET-BASED PERFORMANCE

(Empirical Study on LQ45 Company Listed in Indonesian Stock Exchange 2018-2019)

#### UNDERGRADUATE THESIS

This Undergraduate Thesis is submitted to obtain the Bachelor of Economics degree at International Program of Accounting Department,

Economics and Business Faculty

Universitas Muhammadiyah Yogyakarta



By Hadiyan Prayoga 20180420247

INTERNATIONAL PROGRAM OF ACCOUNTING FACULTY OF ECONOMICS AND BUSINESS UNIVERSITAS MUHAMMADIYAH YOGYAKARTA 2021

#### DECLARATION PAGE

Written by:

Name : Hadiyan Prayoga Student Number : 20180420247

I hereby declare that this undergraduate thesis entitled "THE RELATIONSHIP BETWEEN INTELLECTUAL CAPITAL AND FIRM PERFORMANCE: DIFFERENTIATING BETWEEN ACCOUNTING-BASED AND MARKET-BASED PERFORMANCE (Empirical Study on LQ45 Company Listed in Indonesian Stock Exchange 2018-2019)" is my own research to fulfill the requirement for bachelor degree in faculty of economics and business, Universitas Muhammadiyah Yogyakarta and I did not plagiarize or do any quotation in ways that are inconsistent with the prevailing ethic in the scientific community. No works or opinions have been written or published by others in this thesis, except those referred to in the manuscript and listed in the bibliography. Therefore, if any violation of intellectual right found in this study, I agree to accept any relevant academic consequences.

Taichung, January 8th 2022

Hadiyan Prayoga

# **MOTTO**

"And Your Lord is going to give you, and you will be satisfied."

QS. Ad Duha ayah 5

La Tahzan Innallaha Ma'ana

"Be someone who are ready to face any challenge."

#### **B.J.** Habibie

"Be grateful and patient when in a happy or sad state. Because gratitude and patience are blessings that are difficult to do."

"Don't judge me by my success, judge me by the result of my struggle."

Nelson Mandela

Dream as long as the dream is free for you.

#### **ACKNOWLEDGEMENT**

All praise and glory Almighty Allah (Subhanahu Wa Taala) who always gave us grace and guidance to carry out this thesis with the title "THE RELATIONSHIP BETWEEN INTELLECTUAL CAPITAL AND FIRM PERFORMANCE: DIFFERENTIATING BETWEEN ACCOUNTING-BASED AND MARKET-BASED PERFORMANCE (Empirical Study on LQ45 Company Listed in Indonesian Stock Exchange 2018-2019)". Peace and blessing of Allah be upon last Prophet Muhammad SAW. Thus, this undergraduate thesis can be finished. I dedicate this work to:

- 1. My beloved parents who always pray for and support the researcher during his life, from giving birth to the present. Without both of you, my life wouldn't be what it is. May Allah SWT always give blessings to all of you.
- 2. A big family who always opens their hands and supports me to pray for me in various circumstances.
- 3. Dra. Arum Indrasari, M.Buss., Ak., CA as my supervisor. Thank you for always guide and support me to complete my studies, especially my thesis.
- 4. Pradana Akbar, S. Pd., M. Pd. as my supervisor. Thank you for always guide, communicative and support me to complete my thesis.
- 5. The author's beloved people, who always provide support in various conditions.
- All IPACC family who always supports and reminds while the researcher is studying.

- 7. The IPAcc Student Batch 2018 "Superhero Class". A family who always gives spirit, made the memories and a sense of love during college.
- 8. HIMA FEB UMY 2019/2020. Seniors who always provide support and attention to always be encouragement in achieving dreams.
- 9. HIMA FEB UMY 2020/2021. Ships that have sailed and made beautiful stories. The most comfortable home to return to. Thank you for the cooperation, togetherness, and synergy during the sailing of the ship. Will never stop feeling us as family.
- 10. Badan Pengurus Harian dan Kadep Sekdep (BKS) Synergy Cabinet. A classic story painted in 1 period in the ship sailed. Thank you for the love, stories, laughter and tears. Thank you for all the enthusiasm that never stops given for researchers.
- 11. Researcher friend's Irfan Ibrahim, Arif W.N Kholid, Hanifan N. S, and M. Arif Nurrahman who always gives encouragement and reminds to always be on the path of truth. Thank you for providing a place to tell stories and adventure for 3 years.
- 12. Five Members of Dual Degree Asia University, who always support, work hard and work together to make a dream come true. Thank you so much.
- 13. All friends of KKN IT 006, thank you for the memories that have been painted.
- 14. Komapres 2021-2022, the great friends who always support the researches.
- 15. All Babeh Squad, HMPM, and Accounting Team 2018. "INCREDIBLE STORY!"

16. Everybody who was important to the successful realization of this thesis, as well as expressing my apology that I could not mention personally one by one. Thank you.

#### **FOREWARD**

#### Assalamualaikum warrahmatullahi wabarakatu.

All praise and glory Almighty Allah (Subhanahu Wa Taala) who always gave us grace and guidance to carry out this work. Peace and blessing of Allah be upon last Prophet Muhammad SAW who has guide us from the jahiliah to the innayah era, so that the author can finish this undergraduate thesis with the title of "THE RELATIONSHIP BETWEEN INTELLECTUAL CAPITAL AND **FIRM PERFORMANCE: DIFFERENTIATING BETWEEN** ACCOUNTING-BASED MARKET-BASED **PERFORMANCE** AND (Empirical Study on LQ45 Company Listed in Indonesian Stock Exchange 2018-2019)" as a requirement for completing the Bachelor Program in International Program of Accounting, Faculty of Economics and Business, Universitas Muhammadiyah Yogyakarta.

The completion of this thesis could not be separated from the guidance and support of various parties, therefore on this occasion the author would like to thank as much as possible to:

- 1. Allah SWT who has provided me with easily and fluency in carrying out this study.
- 2. My beloved parents and my big family who always give me prayers and support for the researcher during his life, from giving birth to the present.
- 3. Prof. Rizal Yaya, M.Sc., Ph.D., Ak. CA as the Dean of the Faculty of Economics and Business at Universitas Muhammadiyah Yogyakarta, who

has provided instructions, guidance and convenience for the author to

complete her studies.

4. Dr. Dyah Ekaari Sekar J, S.E., M.Sc., QIA., Ak., CA, as the Head of

Accounting Departement at Universitas Muhammadiyah Yogyakarta, who

has provided guidance and convenience for the author to complete the study.

5. Fitri Wahyuni, S.E, M.Sc, as the head of International Program of

Accounting Departement at Universitas Muhammadiyah Yogyakarta, who

has provided guidance and convenience for the author to complete the study.

6. Dra. Arum Indrasari, M.Buss., Ak., CA as my supervisor. Thank you for

always guide, communicative and support me to complete my studies,

especially my thesis.

7. Pradana Akbar, S. Pd., M. Pd. as my supervisor. Thank you for always

guide, communicative and support me to complete my thesis.

8. Everybody who was important to the successful realization of this thesis, as

well as expressing my apology that I could not mention personally one by

one. Thank you.

Wassalamualaikum Warrahmatullahi Wabarakatu.

Taichung, January 8th 2022

Hadiyan Prayoga

#### LIST OF CONTENT

TITLE PAGE	i
SUPERVISOR APPROVAL PAGE Error! Bookmark no	ot defined.
STATEMENT OF AUTHENTICATY PAGE Error! Bookmark no	ot defined.
<b>DECLARATION PAGE</b> Error! Bookmark no	ot defined.
MOTTO	iv
ACKNOWLEDGEMENT	vi
ABSTRACT	ix
FOREWARD	X
LIST OF CONTENT	xii
LIST OF TABLE	XV
LIST OF FIGURES	xvi
CHAPTER I INTRODUCTION	1
A. Research Background	1
B. Research Questions	11
C. Research Purposes	11
D. Research Benefits	11
CHAPTER II LITERATURE REVIEW	13
A. Theoretical Framework	13
1. Stakeholder Theory	13
2. Signaling Theory	14
3. Resource Based Theory	15
4. Intellectual Capital	16
5. Accounting Based Performance	19
6. Market Based Performance	20
B. Hypothesis Development	22
The relationship between Capital Employed Efficiency on Firm Performance	
2. The relationship between Human Capital Efficiency on Firm Perf	
3. The relationship between Structural Capital Efficiency on Firm Performance	24
C Research Model	26

CHAPTER III RESEARCH METHODOLOGY	27
A. Research Object	27
B. Type of Data	27
C. Sampling Technique	28
D. Data Collection Technique	28
E. Operational Definition of Research Variable	29
1. Independent Variable	29
2. Dependent Variable	32
F. Instrument and Data Analysis Technique	34
G. Hypothesis Testing	36
1. Multiple Regression Analysis	36
2. Coefficient Determination Test (Adjusted R2)	37
3. Simultaneous Significance Testing (f-test).	38
4. Partial Test (t-test)	38
CHAPTER IV RESULT AND DISCUSSION	40
A. Overview of Research Subject	40
B. Data Quality Test	42
1. Descriptive Statistics Test	42
C. Classic Assumption Test	47
1. Normality Test	47
2. Autocorrelation Test	48
3. Multicollinearity Test	49
4. Heteroscedasticity Test	51
D. Hypothesis Testing	52
1. Coefficient Determination Test (Adjusted R2)	52
2. Simultaneous Significance Testing (F-Test)	54
3. Partial Test (t-test)	55
E. Discussion	59
The relationship between Capital Employed Efficiency on Firm  Performance	59
2. The relationship between Human Capital Efficiency on Firm Performan	
3. The relationship between Structural Capital Efficiency on Firm Performance	
CHAPTER V CONCLUSIONS SUCCESTIONS AND LIMITATIONS	

APPENDIX	74
REFERENCES	67
C. Limitations	66
B. Suggestions	66
A. Conclusions	65

# LIST OF TABLE

Table 4.1 Research Sample Data First Model	40
Table 4.2 Research Sample Data Second Model	40
Table 4.3 Descriptive Statistics	42
Table 4.4 The Result of Normality Test	46
Table 4.5 The Result of Autocorrelation Test	47
Table 4.6 The Result of Multicollinearity Test	49
Table 4.7 The Result of Heteroscedasticity Test	50
Table 4.8 The Result of Coefficient Determination Test	52
Table 4.9 The Result of Simultaneous Significance Testing	53
Table 4.10 The Result of Partial Test (t-test)	54
Table 4.11 Summary of Research Findings	55

# LIST OF FIGURES

Figure 2.1 Research Model	26
Figure 2.2 Research Model	26