

International Journal of Multidisciplinary Research and Literature

IJOMRAL



Vol. 1, No. 1, January 2022 hal. 1-120 Journal Page is available at http://ijomral.esc-id.org/index.php/home

ANALYSIS OF THE EFFECT OF ROA AND ROE ON PER AND ITS IMPLICATIONS ON LQ45 COMPANY SHARE PRICES FOR THE 2009-2019 PERIOD

Cornelia Dumarya Manik¹, Achmad Ludvy² ^{1,2}University of Pamulang, Indonesia,

Email: Cornelia00720@unpam.ac.id, dosen02586@unpam.ac.id

ABSTRACT

On the Share Price of the company LQ45 either partially or simultaneously in the last 11 (eleven) years from 2009-2019. The purpose of this study is to find out how the Return On Assets (ROA), Return On Equity (ROE) and Price Earning Ratio (PER) in the LQ45 Company, to determine the development of the LQ45 Company's stock price and to determine the effect of ROA and ROE on PER and their implications. The research conducted by the author is descriptive quantitative, namely achieving a discussion of the problems faced by the company on the company's performance in terms of finance. To determine whether or not there is an influence between ROA and ROE on PER and its implications for the LQ45 company's stock price, panel data regression analysis and hypothesis testing regarding the relationship are partially and simultaneously. The results of this study indicate that the partial test results ROA has no significant effect on PER, and ROE has a negative and significant impact On PER. The following test results also show that PER has a positive and significant impact on the stock price of LQ45 companies for the 2009-2019 period.

Keywords: ROA, ROE, PER and Stock Price

INTRODUCTION

The country's economic sector continues to move towards a more advanced competitive direction when the business world is shaken by many unpredictable events causing many business sectors to slump, especially when the pandemic period strikes the whole world. The economic order has been shaken so much that it has resulted in investors' decisions in choosing target companies as their investment targets.

The capital market in a country can be a reference to see how the enthusiasm or dynamics of business in a country moves its economic policies, such as fiscal and monetary policies. From the policies implemented, It is possible to obtain stimulus conditions and even resilience with the further effect of making a positive contribution to state revenue, especially in terms of tax revenue (Irham, 2013:54).

Many companies listed on the stock exchange offer investment opportunities. These companies have a unique performance that provides a certain level of profit. Companies listed on the stock exchange have certain industry groups, and some are incorporated in a particular index with terms and conditions that must be met by the company depending on the feasibility of its financial statements. The LQ45 index is an index that contains companies with reasonably good and decent performance for investment targets. Every year there are changes in the companies entering and leaving this index. So if there are

companies that remain in the LQ45 index for a certain period, they become companies that can attract investors to invest.

To determine whether the condition of the company is in a good or bad position using fundamental analysis through analysis of profitability ratios, namely Return On Assets (ROA), Return On Equity (ROE) and an overview of market ratios, namely Price Earning Ratio (PER).

Companies that target many investments have a relatively high share price because there are many interested parties, coupled with the consideration of financial statement analysis through the ratios also illustrated often spur changes in the value of the share price. Researchers took samples of companies listed in the LQ45 index because the annual reports of LQ45 companies are quality financial reports. The possibility of the data needed in this study being available is getting bigger. Researchers used the LQ45 sample to make it easier for researchers to take complete data samples through large companies in LQ45. In addition, these companies are also large-scale industrial companies in Indonesia, so the income will be more significant, which will then be an attraction for investors to find out financial statement information related to the company's share price. Based on these reasons, the authors researched the entitled " Analysis of the Effect of ROA and ROE on PER and its Implications on LQ45 Company Share Prices for the 2009-2019 Period".

LITERATURE REVIEW

Return on Assets (ROA)

Bambang Riyanto (2011:336) mentions the term ROA with Net Earning Power Ratio (Rate of Return on Investment / ROI), namely the ability of the capital invested in overall assets to generate net profits. The net profit he meant was net profit after tax. Companies that have high ROA information will increase investor confidence in the company. In addition, a high ROA makes the probability of return on investment made by investors higher, which also means that the investment risk made by investors will be lower.

Return on Equity (ROE)

Return on Equity (ROE) is a ratio that shows the extent to which the company manages its capital effectively, measuring the level of profit from investments that the owners have made of their capital or shareholders. (Munawir, 2010:69). ROE is an essential indicator that investors often use in assessing the level of profitability before investing.

Price Earning Ratio (PER)

Employee engagement I Price Earning Ratio Approach estimates stock value by dividing the current stock price by Earning Per Share (EPS). PER is the most comprehensive measurement ratio of the company's performance because the assessment ratio reflects the combination of the effects of the risk ratio (liquidity ratio and leverage ratio) and return percentage (activity ratio and profitability ratio). (Robert Ang 1997:13) suggests the use of PER is to see how the market appreciates the performance of a company's shares on its performance as reflected by its EPS. Meanwhile, according to (Jones 2010:10), the fundamental analysis that can be used for stock valuation is the Price Earning Ratio (PER approach) approach. This approach estimates the stock value by dividing the current stock price (price) by earnings per share (EPS). This approach does not take into account the time value of money.

Stock price

According to Robbert Ang (1997) in Ajeng Dewi Kurnianto (2013:28), shares are securities as evidence of participation or ownership of individuals or organizations (agencies) in a company. According to Tandelilin (2011: 211), stock prices reflect investors'

expectations of earnings factors, cash flow, and the level of return required by investors. Meanwhile, according to Sartono (2018:20), the stock market price is the price formed through the mechanism of supply and demand in the capital market.

RESEARCH METHODS

This study was conducted to analyze and how the effect of Return on Assets (ROA) on the Price Earning Ratio (PER), the result of Return on Equity (ROE) on the Price Earning Ratio (PER) and the Implications of Price Earning Ratio (PER) on stock prices either partially Simultaneously with Case Studies on Companies Listed in the LQ45 Index of the Indonesia Stock Exchange (IDX) for the Period of 2009 - 2019. This study was carried out on companies listed in the LQ45 Index of the Indonesia Stock Exchange (IDX) for the Period of data sources used in this study, the researchers did not come directly to the company but instead visited the company's official websites. And the official website of the Indonesia Stock Exchange, which provides data on the company's annual report. In this study, the population used are Companies Listed in the LQ45 Index of the Indonesia Stock Exchange (IDX) for the Period of 2009 - 2019. In this study, the sample selection was purposive sampling to obtain a representative sample following the specified criteria. The sample selection criteria are as follows:

- a. Companies were always included in the LQ45 index on the Indonesia Stock Exchange during the 2009-2019 period.
- b. Companies Listed in the LQ45 Index on the Indonesia Stock Exchange (IDX) have complete annual financial reports for the 2009-2019 period.

Based on the above criteria, the sample used is the annual company financial statements of companies listed in the LQ45 index on the Indonesia Stock Exchange from 2009 to 2019.

Table 1 Companies Listed in	the LQ45 Index of	the Indonesia	Stock Exchange	(IDX)
	for the Year 2009	- 2019		

No	Company	CODE
1	Astra International Tbk	ASII
2	Bank Central Asia Tbk	BBCA
3	Bank Negara Indonesia (Persero) Tbk	BBNI
4	Bank Rakyat Indonesia (Persero) Tbk	BBRI
5	Bank Mandiri (Persero) Tbk	BMRI
6	Indofood Sukses Makmur Tbk	INDF
7	Perusahaan Gas Negara (Persero) Tbk	PGAS
8	Tambang Batubara Bukit Asam (Persero) Tbk	РТВА
9	Telekomunikasi Indonesia (Persero) Tbk	TLKM
10	United Tractors Tbk	UNTR

Source: Research Data

This research was conducted using statistical methods assisted by the EVIEWS (Ekonometries Views) 9 program. The analysis in this study uses panel data, a combination of time-series data and cross-sectional data. There are two kinds of panel data: panel balance data and panel data unbalance. Panel balance data is a condition where the cross-sectional unit has the same number of time-series observations. In panel data analysis, we will encounter two situations when the data is complete, meaning that each object in the study is finished every year. This descriptive statistical analysis aims to provide a description (description) of data so that the data presented is easy to understand and informative for people who read it. This descriptive statistics explain various data characteristics such as the average (mean), the number (sum) of standard deviations (standard deviation), variance (variance), range (range), minimum and maximum values and so on. These analyses already exist in the options menus in statistical data processing software often used.

This study uses this hypothesis test to test whether the independent variable affects the dependent variable. The hypothesis is a temporary answer to the research problem formulation (Sugiyono, 2016: 223). Therefore the problem formulation is usually arranged in a question sentence. Thus, the research hypothesis can be interpreted as a temporary answer to the research problem until proven through the collected data and tested empirically.

RESULTS AND DISCUSSION

Descriptive statistics are used to describe data statistically. Descriptive statistics in this study refer to the average value (mean) and standard deviation (standard deviation), the minimum and maximum values and from all variables in this study, namely X (ROA ROE), Y (PER) and Z (Stock Price). During the 2009–2019 research period, as shown in Table 2 below:

			· ···· · · · · · · · · · · · · · · · ·
X1_ROA	X2_ROE	Y_PER	Z_HARGASAHAM
8.928818	22.70718	14.63364	10400.64
4.520000	19.91000	14.42500	7637.500
46.57000	70.30000	27.87000	74000.00
0.770000	4.640000	2.170000	1750.000
8.530845	13.32492	4.455605	10088.88
1.578397	1.125038	0.349125	3.469625
5.839055	4.435141	3.522400	19.07636
82.61725	32.64467	3.485415	1405.262
0.000000	0.000000	0.175046	0.000000
982.1700	2497.790	1609.700	1144070.
7932.509	19353.33	2163.914	1.11E+10
110	110	110	110
	X1_ROA 8.928818 4.520000 46.57000 0.770000 8.530845 1.578397 5.839055 82.61725 0.000000 982.1700 7932.509 110	X1_ROA X2_ROE 8.928818 22.70718 4.520000 19.91000 46.57000 70.30000 0.770000 4.640000 8.530845 13.32492 1.578397 1.125038 5.839055 4.435141 82.61725 32.64467 0.000000 0.000000 982.1700 2497.790 7932.509 19353.33 110 110	X1_ROA X2_ROE Y_PER 8.928818 22.70718 14.63364 4.520000 19.91000 14.42500 46.57000 70.30000 27.87000 0.770000 4.640000 2.170000 8.530845 13.32492 4.455605 1.578397 1.125038 0.349125 5.839055 4.435141 3.522400 82.61725 32.64467 3.485415 0.000000 0.000000 0.175046 982.1700 2497.790 1609.700 7932.509 19353.33 2163.914 110 110 110

 Table 2. Descriptive Statistical Analysis of Variables X, Y and Z

Source: Output Eviews 9 (data processed by the author)

Based on the results of descriptive statistical tests using Eviews 9, each variable will be described according to the results in table 4.3 as follows:

a. Return On Assets (ROA) is a ratio that reflects the company's ability to generate profits based on the use of its assets. From the analysis results in table 4.3, the minimum

ROA value is 0.770000, the maximum value is 46.57000, the average or mean is 8.928818, and the standard deviation is 8.530845. The average value shows that every Rp. 1 value of assets used can generate a net profit of Rp. 8.928818.

b. Return On Equity (ROE) is a ratio that shows the power to generate a return on investment based on the book value of the shareholders. In table 4.3, the minimum value of Return On Equity is 4.640000, the maximum value is 70.30000, the average value or mean is 22.70718, and the deviation value is 13.32492. The average value shows that every Rp. 1 fund invested by investors as share capital will generate a net profit of Rp. 22.70718.

c. Price Earning Ratio (PER) is the ratio of market price per share to net earnings per share. This Earning Price Ratio is the company's current price per share valuation compared to its net income per share. Price to This Earning Ratio is a ratio often used to evaluate prospective investments. This ratio is also used to assist investors in deciding whether to buy shares of a particular company. In table 4.3, the minimum value of the Price Earning Ratio is 2.170000, the maximum value is 27.87000, the average value or mean is 14.63364, and the deviation value is 4.455605. The average value shows that investors are willing to pay Rp for every Rp. 1 company income or earnings per share. 14,63364

Table 3 Random Effect Model Test Results from The Effect of ROA and ROE on

PER Dependent Variable: Y_PER Method: Panel EGLS (Cross-section random effects) Date: 07/04/20 Time: 23:24 Sample: 2009 2019 Periods included: 11 Cross-sections included: 10 Total panel (balanced) observations: 110 Swamy and Arora estimator of component variances Variable Coefficient Std. Error t-Statistic Prob. X1_ROA 0.163600 0.106351 1.538298 0.1269 X2 ROE -0.109340 0.053368 -2.048798 0.0429 С 1.179796 0.0000 15.65568 13.26982 Effects Specification S.D. Rho Cross-section random 0.3798 2.887922 Idiosyncratic random 3.690537 0.6202 Weighted Statistics **R**-squared 0.309046 Mean dependent var 5.261406 Adjusted R-squared 0.201084 S.D. dependent var 3.716033 S.E. of regression 3.676649 Sum squared resid 1446.399

Analysis of the Effect of ROA and ROE on Per and Its Implications on LQ45 Company Share Prices for the 2009-2019 Period 19

F-statistic	5.534262	Durbin-Watson stat	1.572922		
Prob(F-statistic)	0.018737				
Unweighted Statistics					
R-squared	0.060505	Mean dependent var	14.63364		
Sum squared resid	2177.990	Durbin-Watson stat	1.044574		

Source: Output Eviews 9 (data processed by the author)

1. The Effect of Return On Assets (ROA) on Price Earning Ratio (PER)

Based on the fixed random model test results table, the t-count value of ROA = 1.538298 and the t-table value of 1.982... The t-count value is smaller than the t-table value = 1.538298 < 1.982, with a prob value of 0.1269 > sig alpha 0.05 then it can mean that H0 is accepted and H1 is rejected so that it can conclude that partially Return On Assets (ROA) has no significant effect on Price Earning Ratio (PER).

2. The Effect of Return On Equity (ROE) on Price Earning Ratio (PER)

Based on the table of fixed random model test results, the t-count value of ROA = -2.048798 and the t-table value of 1.982, with a value of prob 0.0429 < sig alpha 0.05. The t-count value is greater than the t-table value = 2.048798 > 1.982, the negative sign indicates a negative effect, and it can interpret that H0 is rejected and H1 is accepted so that it can conclude that partially Return On Equity (ROE) has a negative and significant effect on Price Earning Ratio (PER).

3. The Effect of Return On Assets (ROA) and Return On Equity (ROE) on Price Earning Ratio (PER)

Based on the simultaneous hypothesis testing, the F-count value is 5.534262, and the F-table is 3.082015, and with a prob value of 0.018737, the F-count value is more significant than F-table = 5.534262 > 3.082015, it means that H0 is rejected and H1 is accepted. So it can conclude that simultaneously variable X, namely Return On Assets (ROA) and Return On Equity (ROE) simultaneously (together), has a positive and significant effect on variable Y, namely Price Earning Ratio (PER).

 Table 4 Random Effect Model Test Results from The Effect of PER on Stock

 Prices

Dependent Variable: Z_Stock Prices					
	Method: Panel EGLS (Cross-section random effects)				
		Date: 07/0	04/20 Time:	23:30	
Sample	: 2009 2019)			
Periods i	included: 1	1			
Cross-sections included: 10					
Total panel (balanced) observations: 110					
Swamy and Arora estimator of component variances					
	Variable	Coefficient	Std. Error	t-Statistic	Prob.
	Y_PER	157.3783	217.0450	0.725095	0.4700
_					

20 International Journal of Multidisciplinary Research and Literature, Vol. 1, No. 1, January 2022, pp. 14-23 https://doi.org/10.53067/ijomral.v1i1.2

C	8097.619	3792.466	2.135186	0.0350	
Effects Specification					
			S.D.	Rho	
Cross-section random			6035.662	0.3369	
Idiosyncratic random			8468.108	0.6631	
Weighted Statistics					
R-squared	0.040880	Mean depe	endent var	4052.075	
Adjusted R-squared	0.040334	S.D. dependent var		8418.806	
S.E. of regression	8437.029	Sum squared resid		7.69E+09	
F-statistic	0.529644	Durbin-Watson stat		0.880679	
Prob(F-statistic)	0.046833				
Unweighted Statistics					
R-squared	0.011150	Mean depe	ndent var	10400.64	
Sum squared resid	1.10E+10	Durbin-Watson stat		0.617132	

Source: Output Eviews 9 (data processed by the author)

Based on the table of fixed random model test results, the t-count value PER = 0.725095 and the t-table value is 1.982. The t-count value is smaller than the t-table value = 0.725095 < 1.982, with prob 0.4700 > 0.05. It can interpret that H0 is accepted and H1 is rejected, so it can conclude that the Price Earning Ratio (PER) partially has no significant effect on stock prices.

The Effect of Return On Assets (ROA) on Price Earning Ratio (PER)

Based on the table of fixed random model test results, the t-count value of ROA = 1.538298 and the t-table value of 1.982. The t-count value is smaller than the t-table value = 1.538298 < 1.982, with a prob value of 0.1269 > sig alpha0.05, and it can interpret that H0 is accepted, and H1 is rejected so that it can say that partially Return On Assets (ROA) has no significant effect on Price Earning Ratio (PER). These results are different from some previous studies conducted by Rizki Aditya Septadi, Rodhiyah & Wahyu Hidayat. Their research concluded that Return On Assets (ROA) had a positive and significant effect on Price Earning Ratio (PER). This research is also in line with the study conducted by Nur Ahmadi and Bi Rahmani. However, research by Iwan Firdaus and Ika shows the results that Return On Assets (ROA) harms Price Earning Ratio (PER), which is also contrary to the results of research conducted by Frengky David Sijabat and Anak Agung Gede Suarjaya, which states that Return On Assets (ROA) has a positive and significant effect on the Price Earning Ratio (PER).

The Effect of Return On Equity (ROE) on Price Earning Ratio (PER)

Based on the table of fixed random model test results, the t-count value of ROA = -2.048798 and the t-table value of 1.982, with a prob value of 0.0429 < sig alpha 0.05. The t-count value is greater than the t-table value = 2.048798 > 1.982, the negative sign indicates a negative influence, and it can interpret that H0 is rejected and H1 is accepted so that it can conclude that partially Return On Equity (ROE) has a negative and significant effect on Price Earning Ratio (PER). These results have similarities with research conducted by Nur Ahmadi Bi Rahmani that Return On Equity (ROE) affects Price Earning Ratio (PER). However, based on the two types of research, it is stated that ROE harms the Price Earning Ratio (PER), which is the similarity of the results with this study.

The Effect of Return On Assets (ROA) and Return On Equity (ROE) simultaneously (together) on the Price Earning Ratio (PER)

Based on the simultaneous hypothesis testing, the F-count value is 5.534262, the F-table is 3.082015, and the F-count value is more significant with a prob value of 0.018737 F-table = 5.534262 > 3.082015, it means that H0 is rejected and H1 is accepted. So it can conclude that simultaneously variable X, namely Return On Assets (ROA) and Return On Equity (ROE) simultaneously (together), has a positive and significant effect on variable Y, namely Price Earning Ratio (PER). The results of the study show the similarity of the results with other studies conducted by Rizki Aditya Septadi, Rodhiyah & Wahyu Hidayat, who stated that Return On Assets (ROA) and Return On Equity (ROE) simultaneously (together) had a positive effect on variable Y, namely Price Earning Ratio (PER). This variable indicates that the two profitability ratios, namely Return On Assets (ROA) and Return On Equity (ROE), influence Price Earning Ratio (PER). On Assets (ROA) and Return On Equity (ROE) simultaneously have a positive effect on Price Earning Ratio (PER).

The Effect of Price Earning Ratio (PER) on Stock Prices

Based on the simultaneous hypothesis testing, the F-count value is 5.571753, and the F-table is 3.929012. With a prob value of 0.000001, the F-count value is more significant than F-table = 5.571753> 3.929012. It can interpret that H0 is rejected and H1 is accepted. So it can conclude that the Y variable, namely Price Earning Ratio (PER), has a significant effect on Variable Z, namely Stock Price. Several previous studies stated that the Price Earning Ratio (PER) affected stock prices. Research by Dorothea Ratih, Apriatni E.P, and Saryadi says that the Price Earning Ratio (PER) impacts stock prices. Specifically, research by Siti Rahmania Natsir and Ema Novasari in a different study showed a positive and significant effect between Price Earning Ratio (PER) and Stock Price. Still, in line with these results, Yuniep Mujati S and Media Dzulqodah also conducted research which stated that there was a positive and significant relationship between the Price Earning Ratio (PER) on the stock price and was further strengthened by the study conducted by Ni Made Dewi Puspita Sari and Nyoman Triaryati who further enhances the research results that the Price Earning Ratio (PER) affects stock prices.

22 International Journal of Multidisciplinary Research and Literature, Vol. 1, No. 1, January 2022, pp. 14-23 https://doi.org/10.53067/ijomral.v1i1.2

CONCLUSION

Based on the discussion and research results regarding the analysis of the influence of ROA and ROE on PER and their implications on the LQ45 Company's Share Price for the 2009-2019 period, the following conclusions can be drawn: Return on Assets (ROA) has no significant effect on Price Earning Ratio (PER) Based on the table of fixed random model test results it can interpret that partially Return On Assets (ROA) has no significant effect on Price Earning Ratio (PER). Return on Equity (ROE) has a negative and significant impact on Price Earning Ratio (PER). Based on the table so it can conclude that partially Return On Equity (ROE) has a negative and significant effect on Price Earning Ratio (PER). Based on the table so it can conclude that partially Return On Equity (ROE) has a negative and significant effect on Price Earning Ratio (PER). Return On Equity (ROE) simultaneously (together) have a positive and significant effect on Price Earning Ratio (PER), so it can conclude that simultaneously the X variable is Return On Assets (ROA) and Return On Equity (ROE) simultaneously (together) have a positive and significant effect on variable Y, namely Price Earning Ratio (PER). Price Earning Ratio (PER) positively and significantly impact stock prices. Based on the simultaneous hypothesis testing, the Y variable is Price Earning Ratio (PER), which substantially affects Variabel Z, namely stock prices.

REFERENCE

- Antika, Rindi, "*Tinjauan Atas Analisis Laporan Arus Kas Pada PT Sucofindo (Persero)*", Jurnal Penelitian, STIE INABA, Bandung, 2004
- Bank Indonesia, "Indonesia Financial Statistik", BI, Jakarta 2008 2016
- Erlina "Pengaruh Set Kesempatan Investasi Terhadap Nilai Perusahaan : Peran Kebijakan Perusahaan dan Kepemilikan Manajerial", Jurnal Penelitian, USU, Medan, 2008.
- Fahmi, Irham, "Analisa Laporan Keuangan", Alfabeta, Bandung, 2013. Fakhrudin, "Mengenal Permodalan", Salemba Empat, Jakarta, Tahun 2008.
- Haugen, Robert, A., *Modern Investment Theory*, Fourth Edition, Prentice-Hall, International Inc., New Jersey, 2007,
- Kasmir, "Pengantar Manajemen Keuangan", Edisi Pertama, Kencana Prenada Group, Jakarta, Tahun 2010.
- Munawir, S., "Analisa Laporan Keuangan", Edisi keempat. Penerbit Liberty, Yogyakarta, 2014.
- Nourmasari, Vivy Diah, Kertahadi, Darminto, "Analisis Fundamental Internal Untuk Menilai Kewajaran Harga Saham Dengan Pendekatan Price Earning Ratio (PER)", Jurnal Fakultas Ilmu Administrasi Universitas Brawijaya Malang, 2012.
- Novasari, Ema, "Pengaruh PER, EPS, ROA dan DER Terhadap Harga Saham Perusahaan Sub-Sektor Industri Textile Yang Go Public Di Bursa Efek Indonesia (Bei) Tahun 2009-2011", Jurnal Penelitian Akuntansi, Fakultas Ekonomi Universitas Negeri Semarang, Semarang, 2013.
- Nurwita, N. (2021). INFLUENCE OF CAPITAL ADEQUACY RATIO (CAR) AND NON-PERFORMING LOAN (NPL) ON RETURN ON ASSETS (ROA) ON PT. BANK CENTRAL ASIA TBK.: PENGARUH CAPITAL ADEQUACY RATIO (CAR) DAN NON PERFOMING LOAN (NPL) TERHADAP RETURN ON ASSETS (ROA) PADA PT. BANK CENTRAL ASIA TBK. Indonesian Journal of Economy, Business, Entrepreneurship and Finance, 1(2), 167-172.
- Pudjiastuti, Enny, Analisis Pengaruh Return Pasar, Tingkat Inflasi, Tingkat Suku Bunga Deposito Terhadap Return Saham Individu Pada Industri Dasar dan Kimia Yang Terdaftar di BEJ Periode 1997-1998, Tesis Program MM UNDIP, Semarang, 2000.
- Putra, Dianata Eka dan Imron Samsuharto, "Berburu Uang Di Pasar Modal : Panduan Investasi Menuju Kebebasan Finansial". Effhar, 2006.
- Rusnaeni, N., Wartono, T., & Nurwita, N. (2022). PENGARUH RETURN ON EQUITY DAN NET PROFIT MARGIN TERHADAP HARGA SAHAM PADA PT. ACE HARDWARE INDONESIA Tbk. *Jurnal Arastirma*, 2(1), 149-157.
- Robert, Ang, "Pasar Modal Indonesia", Media-Soft Indonesia, 2017.
- Riyanto, Bambang, "Dasar-Dasar Pembelanjaan perusahaan". Edisi keempat, BPFE, Yogyakarta, 2010.

Analysis of the Effect of ROA and ROE on Per and Its Implications on LQ45 Company Share Prices for the 2009-2019 Period 23

Sartono, Agus, "Manajemen Keuangan Teori dan Aplikasi", BPFE, Yogyakarta, 2011.

- Rosadi, Dedi., Ekonometrika Dan Analisis RuntunWaktu Terpan Dengan Eviews. Andi Offset. Yogyakarta. 2012.
- Sugiyono, "*Metode Penelitian Kuantitatif, Kualitatif dan R&D*", Alfabeta, Bandung, 2010.
- Sulistiawan, Dedhy, Liliana, "Analisis Teknikal Modern Pada Perusahaan Sekuritas", ANDI Yogyakarta, Yogyakarta: 2017.
- Widjaja, G., Ekasari, S., Sijabat, H. H., Nurwita, N., & Hendriarto, P. (2021). Understanding Real Estate Investment Risk and Opportunity (Study Business and Economic Management). Budapest International Research and Critics Institute (BIRCI-Journal): Humanities and Social Sciences, 4(4), 11943-11952.
- Widyaningdyah, A. Utari, "Analisis Faktor-faktor yang Berpengaruh Terhadap Earnings Management pada Perusahaan Go Public di Indonesia", Jurnal Akuntansi & Keuangan Vol. 3, No. 2, November 2001: 89 – 101 Fakultas Ekonomi, Jurusan Akuntansi – Universitas Kristen Petra, 2001.
- Winarno, Wahyu Wing., Analisis Ekonometrika Dan Statistika Dengan Eviews, Edisi Empat, Yogyakarta, 2015.
- .Zaki, Baridwan "Intermediate Accounting", Edisi Kedelapan, BPFE, Yogyakarta, 2014.