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Work-Based Peer Assisted Learning Towards Pneumatic and Hydraulic Learning Outcomes at Department of Mechanical Engineering Education

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Abstract - This study aims to determine the influence of work-based learning integrated in Peer-Assisted Learning (PAL) towards Pneumatic and Hydraulic course in Mechanical Engineering Department, Faculty of Engineering in State University of Makassar. This research involves 56 students majoring Mechanical Engineering Education. The data collection techniques used questionnaires, knowledge test and documentation. Instrument validity was tested using Product Moment correlation and the reliability was tested using Alpha cronbach formula. The obtained data were analyzed using descriptive statistic, statistical assumption tests and regression analysis with Statistical Product and Service Solution (SPSS version 20 for Windows). Based on the results of the study, it is concluded that there is a significant positive influence between work-based Peer-Assisted Learning towards students' learning outcomes majoring Mechanical Engineering in State University of Makassar with sig. 0.00 < 0.05. The result of regression analysis shows that peer-assisted learning with working environment affect the learning outcome of 45.6%.

Keywords: *Peer-Assisted Learning; work-based learning, learning outcome*

I. INTRODUCTION

Education is one of the most important areas and requires special attention from society, not just governments, but educators, parents and learners must take the responsibility. The vocational educators is facilitators and mediators to help the students to learn well. The functions of educators as facilitators and mediators are to; (1) provide learning experience that allows learners to be responsible for designing and processing; (2) stimulate learners' curiosity and help them to express their ideas and to think productively; (3) monitoring, evaluating how far the students' intelligence have developed.

The old paradigm in teaching and learning activities states that educators provide knowledge to passive learners. Today, it has changed a lot because of the demands of this globalization era. Currently, the new paradigm begins to develop active learning strategies for learners. Schools and universities as educational institutions should be able to play a role in the educational process (educational process that emphasizes the activities of educating and teaching), the process of socialization (the process of socialization,

especially for students), and the process of transformation or change process behavior toward a better (Maryani, 2010). Therefore, in the process of learning is expected to occur the activities of learners, and is expected also learners are able to interact with others positively, for example between learners with students themselves and between learners with educators if there are difficulties associated with the subject matter.

Nowadays, the world of vocational education is starting to become a priority for the government. The formal institutions are expected and developed to provide a ready-to-work graduate. The main problem facing education in Indonesia is the problems related to the quality of education is still low. The low quality of education is seen from the achievement of students' absorption of the subject matter is also still low. Improving skills and skills for the young generation of prospective workers is the responsibility of education, both formal and non formal education. Thus the quality of Human Resources (HR) is one of the most important determinants in achieving the success of the development program. HR problems can not be separated from labor problems. Central Bureau of Statistics (BPS) in May 2016 announced the unemployment rate in Indonesia decreased when compared to February 2015, which reached 7.56 million people (5.81%). In August 2015, the highest unemployment rate reached 7.56% of the soul score (6.18). The highest unemployment rate is graduated from Sekolah Menengah Kejuruan with 9.84% percentage increase from 9.05%. And the percentage of diploma I, II, III education decreased, but the unemployment rate of university graduates increased from 5.34 to 6.22%. (Tempo.com 2016).

In line with Law No. 20 of 2003, UNESCO has established four main pillars of education for the 21st century: (1) learning to know, learners have sufficient understanding and reasoning that can be applied in everyday life; (2) learning to do, providing opportunities for learners to have adequate skills and can spur intellectual improvement; (3) learning to be, learners are expected to understand and appreciate the values in the learning process; and (4) learning to live together in peace and harmony, students are expected to be able to socialize and communicate. The four pillars are not a sequence but complement each other (Poulo Freire, 2001).

The practicum is one of the subjects that must be registered by all the students especially the Department of Mechanical Engineering. It is possible that they will have difficulty in starting the practice, where they must really understand the concept gradually and the process must be running step by step. While the course of practice itself is a course that requires a deep understanding and skill and the process gradually. students will be faced with problems that require an understanding of lengthy procedures / steps of completion, complex and complex calculations and they are not sufficiently understood by theory alone. Pneumatic and hydraulic course is one of the compulsory subjects in the fourth semester for Bachelor's degree at Department of Mechanical Engineering, Faculty of Engineering in State University of Makassar. The course has 3 credits consisting of theory and practice. However, there are still many students who have difficulties in understanding the material in the pneumatic and hydraulic courses, especially on symbol and how the pneumatic valve works. This is because the symbol and the workings of the pneumatic valve requires a high level of understanding in learning.

The working environment is everything that is around the practice participants that can affect the implementation of a process of practical work. The working environment is the whole facility and the work infrastructure that is around the students who are implementing the prkatek which can affect the implementation of practical work including workplace, facilities, cleanliness, lighting, as well as the working relationship between the people in that place. Work environment is a place where learners practice every day. A conducive working environment provides a sense of security and allows learners to work more optimally, the work environment can affect the participants emotionally. If the learner enjoys the work environment in which he practices, then the participant will feel at his workplace or in the workshop in doing his activities so that the working time is used effectively. Productivity will be high and automatically the students' work performance are also high, the work environment that includes the working relationship between educators and fellow learners and superiors and the physical environment where the practice activities in the workshop. Sihombing (2004) states that. The Work Environment is the factors outside the human both physical and non physical in an organization. Physical factors include work equipment, workplace temperature, tightness and density, noise, workplace space while non-physical includes the working relationship formed in the agency between superiors and subordinates and between fellow participants.

Sutrisno (2009), suggests that the work environment is work infrastructure that is around employees who are doing work that can affect the implementation of work include workplace, facilities, cleanliness, lighting, as well as working relationships between people who are in the place. Students will carry out their activities properly, if the element is supported by the condition of a good working environment. Therefore, the work environment factors in a labolatorium must be considered by an institution so that the learners can work optimally, comfortably, safely, and have high motivation

to work more productively for the achievement of agency goals.

One of the effective learning methods in learning pneumatic and hydraulic is Peer-Assisted Learning (PAL). Learning together in groups with peer is one of the characteristics of competency-based learning, through interaction and communication activities, learners become actively learning, they become effective. Cooperation in groups with peer can be linked to values, so their cooperation becomes more intensive and eventually they can reach their targeted competences. Viewed from the level of active participation of learners, the benefits of learning in groups with peer tutors have a higher level of active participation of learners. According to Thomson, the learning process should not come from the teacher to the learners, but can also learners teach each other fellow learners. Glynn, et.al (2006) states that PAL and peer tutoring programes have a positive correlation with examination performance and have led to a reduction of stress and enhancement of course satisfaction among students. The benefits of PAL do not appear to be restricted to the tutees as findings affirmed the benefits to peer tutors, particularly in terms of skills improvement and strengthening of positive attitudes towards future social responsibilities (Hodgson et al., 2014).

According to Mel Silberman (2001), Peer-Assisted Learning is one of learning strategy based on active learning. Some experts believe that one lesson can be completely mastered only when learners are able to teach other learners. Peer-Assisted Learning (PAL) provides opportunities and encourages learners to learn something well, and at the same time it becomes a resource for others. Peer-Assisted Learning (PAL) is an effective way to produce peer teaching skills. Meanwhile, according to Chan, et. Al (2016) PAL is also known as 'peer tutoring', used as an instructional or learning support strategy that utilises students help or support other students that are struggle in academic. Students from the same classes or older students are paired with younger struggling students. The tutoring is in small groups or through one-on-one interactions and in some cases, students rotate between the role of tutor and tutee.

With this peer tutor method, it is expected that learning difficulties can be overcome, because with peer tutor in conveying information more easily understood by tutee (friend who taught) because the same language with peers, learners in expressing difficulties to the tutor more open because the theme itself, the atmosphere relaxed learning can eliminate fear, strengthen friendship, there is attention to differences in characteristics, concepts easy to understand, learners are interested to be responsible that is to learn self-learning.

II. METHOD

A. Types of Research

Referring to the previous description, the design of this study using quantitative approach method with survey method, where researchers describe quantitatively, trends, behavior or opinions of a population by examining the sample population (Creswell, 2013). The variables in this study consisted of

independent variables of peer-based learning based on work environment (X) and the results of pneumatic and hydraulic (Y) work.

B. Population and Sample

The population in this study is an active student majoring in mechanical engineering who programmed the work of pneumatic and hydraulic subjects with the number of 76 active students in the academic year 2016/2017. The sampling technique used in this study is proportional random sampling, this sampling technique is an extension of stratified random sampling (Lohr, 2008). The sample of the respondent group is allocated proportionally to each strata or group of population. The total sample in this research is obtained using Taro Yamane formula (in Riduwan, 2007) with the level of precision specified (error rate, $\alpha = 5\%$) obtained sample number 56.

C. Data Collection Techniques

Research data obtained by using documentation, questionnaire and test. The instrument used in the form of a questionnaire with a closed questionnaire type is a questionnaire whose answers have been prepared so that the respondents just choose the answer. In accordance with the study of theory, the compilation of peer tutor instruments based on factors that mempegaruhinya the environmental factors of physical work and non physical environment. The statement in the questionnaire is guided by the indicator of the research variables described in several items. The questionnaire used refers to the Likert Scale using an alternate four-scale answer, so the data is generated in the form of intervals whereas the test used is a series of questions to measure skills, knowledge of intelligence, abilities or talents possessed by individuals or groups. Usually, method used in data collection is to measure the presence or absence and the amount of basic ability or achievement as a subject in the study. The formulation of the statements in the questionnaire and the test is based on the indicators of the research variables used.

D. Research Instruments

The test of the instruments performed in this study includes the validity and reliability test. Validity test consists of two test pilot test of construct validity and validity test item questionnaire. The test results of the validity of item questionnaire items on the variables of peer-based tutors based on work environment (X) is 39 items from 45 items. Through validity test conducted to 20 students majoring in PTM FT-UNM, 6 items declared invalid and 39 statements declared valid. Instrument of learning result variable amounted to 33 items, which originally amounted to 40 items. Through validity test conducted to 20 students of Department of Mechanical Engineering, 7 statement items are declared invalid and 33 items of statement declared valid, so the item that is not valid removed from questionnaire. The results of the reliability test of each variable are: (1) the value of cronbach's alpha for peer tutor variables of work environment (X) is 0.827 and (2) the cronbach's alpha value for the pneumatic and hydraulic learning result variable of 0.897.

Alpha value of all variables is valued > 0.700 so it can be concluded that the questionnaire instrument for all variables is reliable, so it is appropriate to be used to retrieve research data.

E. Data Analysis Techniques

Data analysis conducted in the research consist of analysis that is (1) inferential descriptive statistic. Descriptive statistical analysis is used to describe data based on central tendency and dispersion. Central tendencies are mean, median, minimum value, and maximum value; (2) The prerequisite analysis test is performed with the aim to fulfill the requirement of hypothesis test which includes normality test and linearity test, and (3) Hypothesis test using simple regression analysis technique on functional or causal relationship of one independent variable with one dependent variable using SPSS 20 with 5% significance level guidance to see how much contribution given by independent variable to dependent variable.

III. RESULTS AND DISCUSSION

The results of the study described data descriptions of each variable, prerequisite test, and hypothesis testing. The following is a description of the research results.

A. Data Description

Description of the data presented using descriptive statistical techniques that aim focus on the depiction of data. The data descriptions for each variable include: average (M), standard deviation (SD), median (Me), mode (Mo), and frequency distribution histogram. For the Work-based Peer-Assisted Learning (X) variable. Based on the results of analysis conducted using Statistical Product and Service Solution (IBM SPSS Statistics 20), it can be presented the results of analysis as in Table 1 below.

TABLE I. DESCRIPTIVE STATISTIC OF WORK-BASED PEER ASSISTED LEARNING (PAL)

N	Valid	56
	Missing	0
Mean		108,6429
Median		111,0000
Mode		114,00 ^a
Std. Deviation		18,14430
Range		69,00
Minimum		70,00
Maximum		139,00

a. Multiple modes exist. The smallest value is shown

It is known that the peer-assisted learning has a Mean = 108.64 Standard Deviation = 18.14, Median = 111, Mode = 114, Maximum Value = 139 and Minimum Value = 70.

TABLE II. PERCENTAGE WORK-BASED PEER ASSISTED LEARNING VARIABLE

No	Category	Interval	Frequency	Percentage
1.	Very High	> 121,65	12	21,43%
2.	High	104,6 – 121,75	27	48,21%
3.	Low	87,26 – 104,5	7	12,5%
4.	Very Low	< 87,25	10	17,86%
Total			56	100%

Based on the data percentage of work-based peer assisted learning score can be described in Figure 1.

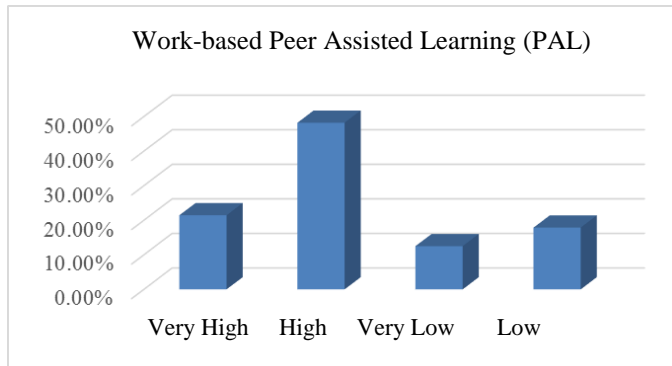


Fig 1. Diagram of work-based peer assisted learning

Based on the above standard score can be seen 12 people (21.43%) are in very high category, 27 people are in high category (48.21%), 7 people are in low category (12.50%) and 10 people is in very low category (17.86%). So it can be concluded that the large respondents have the proportion of peer-based tutors are in the high category that is as much as 48.21%. For variables of pneumatic and hydraulic learning result (Y), showing the result of analysis performed using IBM SPSS Statistics 20. hence can be presented result of analysis like as follows.

TABLE III. DESCRIPTIVE STATISTIC OF LEARNING OUTCOME (LO)

N	Valid	56
	Missing	0
Mean	77,9475	
Median	78,0682	
Mode	77,32 ^a	
Std. Deviation	5,69014	
Range	27,77	
Minimum	60,65	
Maximum	88,42	

a. Multiple modes exist. The smallest value is shown

It is known that student learning result variable has Mean = 77,95, Standard Deviation = 5,69, Median = 78,07 Mode = 77,32, Max Value = 88,42 and Minimum Value = 60,65.

TABLE IV. PERCENTAGE OF LEARNING OUTCOME (LO)

No	Category	Interval	Frequency	Percentage
1.	Very High	> 81,5	14	25%
2.	High	74,6-81,5	26	46,43%
3.	Low	67,7-74,5	13	23,21%
4.	Very Low	< 67,6	3	5,36%
Total			56	100%

Based on the proportion of scores of learning results can be described diagram as follows.

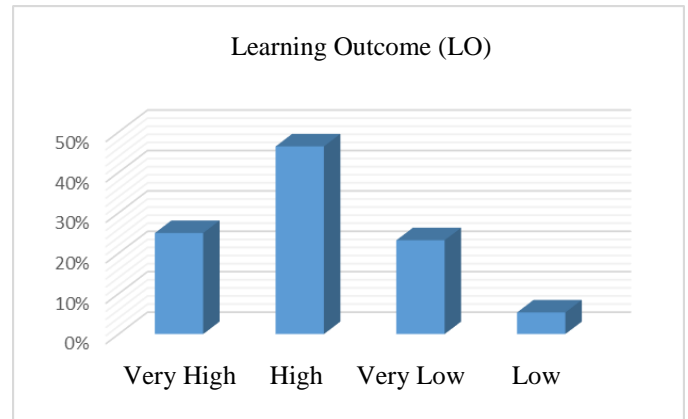


Fig 2. Diagram of Pneumatic and Hydraulic Learning Outcome

Based on the standard score above it shows that 14 students (25%) are in very high category, 26 students are in high category (46.43%), 13 students are in low category (23.21%) and 3 students are in very low category (5.36%). Therefore, it is concluded that the majority of the students (46.43%) are in the high category of learning outcome.

B. Fulfillment of Statistical Assumption

Prior to hypothesis testing, statistical assumption need to be fulfilled since it will determine the hypothesis testing. There are two testing, they are normality testing and liarity testing. The results of these testing will provide information to decide whether using parametric or non-parametric analysis.

Normality testing aims to know wheter the collected data were normally distributed or not. Besides, the result will provide the information whether the hypothesis should be analyzed using parametric or non-parametric. Normality testing using One-Sample Kolmogorov-Smirnov with SPSS. Data is normal when the significance value (Asymp.sig)>0,05.

TABLE V. NORMALITY TESTING ON WORK-BASED PEER ASSISTED LEARNING

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Peer-Assisted Learning	,117	56	,055	,947	56	,016

a. Lilliefors Significance Correction

TABLE VI. NORMALITY TESTING ON LEARNING OUTCOME

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Learning Outcome	,074	56	,200	,971	56	,204

a. Lilliefors Significance Correction

The result of normality tests show that: (1) Value of work-based peer assisted learning t is 0,55 and; (2) learning outcome is 0,200, where the significance value of each variable is more than 0,05 so it can be concluded that the data of the research results for each variable is normally distributed.

TABLE VII. LINEARITY ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
PAL LO	(Combined)	1457,330	37	39,387	2,192	,039
	Between Groups					
	Linearity	811,263	1	811,263	45,148	,000
	Deviation from Linearity	646,068	36	17,946	,999	,519
Within Groups		323,442	18	17,969		
Total		1780,772	55			

Linearity testing is used to know whether the relationship between exogenous and endogenous variables are linear. This research used linearity testing with *Test for Linearity* in SPSS, where the probability value (Asymp.sig) < 0,05 therefore the distributed data is linear. The result of linearity testing shows that significance value of each variable: (1) work-based peer assisted learning on pneumatic and hydraulic is 0,00. The result of linearity test of the variables is less than 0,05 so it can be concluded that data between two variables (exogenous and endogenous variables) have a linear relationship.

C. Hypothesis Testing

Hypothesis testing is conducted to know the influence of the exogenous variable to the endogenous variable, both partially and simultaneously. The testing uses SPSS with simple linear regression.

TABLE VIII. REGRESSION ANALYSIS OF THE CORRELATION BETWEEN VARIABLES

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	811,263	1	811,263	45,186	,000 ^b
1 Residual	969,509	54	17,954		
Total	1780,772	55			

a. Dependent Variable: Hasil Belajar
b. Predictors: (Constant), Tutor Sebaya

The result of the simple regression analysis shows that R=0.675 means the value of the correlation coefficient of 0.675, R Square (R²) multiplied 100%= 0.456x100% = 45.6%. These numbers means that the work-based peer assisted learning has an influence 45.6% to the learning outcomes while 54.4% is influenced by other variables that not mentioned in the study.

TABLE IX. COEFFICIENT DETERMINATION ANOVA

The result of coefficient analysis of determination test

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,675 ^a	,456	,445	4,23720

a. Predictors: (Constant), Tutor Sebaya
b. Dependent Variable: Hasil Belajar

shows that the value of F_{count} is 45.186 with Sig = 0.000. Therefore the value of sig. <0,05 then H₀ is rejected which means the work-based peer assisted learning has significant effect to pneumatic and hydraulic learning result.

TABEL X. COEFFICIENTS EFFECTS SIGNIFICANCE OF VARIABEL X TOWARDS VARIABLE Y

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	
	B	Std. Error	Beta			
1	(Constant)	54,951	3,468		15,847	,000
	PAL	,212	,031	,675	6,722	,000

a. Dependent Variable: LO

The result of coefficient analysis of determination test shows that the value of F_{count} is 45.186 with Sig = 0.000. Therefore the value of sig. <0,05 then H₀ is rejected which means the work-based peer assisted learning has significant effect to pneumatic and hydraulic learning result.

Based on the coefficients table the influence of Sig. variable X towards variable Y, then obtained formula

$$\hat{Y} = a + bx \tag{1}$$

Regression equation $\hat{Y} = 54,951 + 0,212 X$ states that if there is no increase on variable X, the variable value is 54,951. Regression coefficient of 0.212 states that any change (because the + sign) of one value on the variable X will increase to 0.212. The beta value shows the effect of variable X towards variabel Y, where in the table beta value is 0.675. The Sig value is 0.000, it indicates that there is a significant influence of the variable X to Y because 0,000 <0.05, where 0.05 is the Significant level.

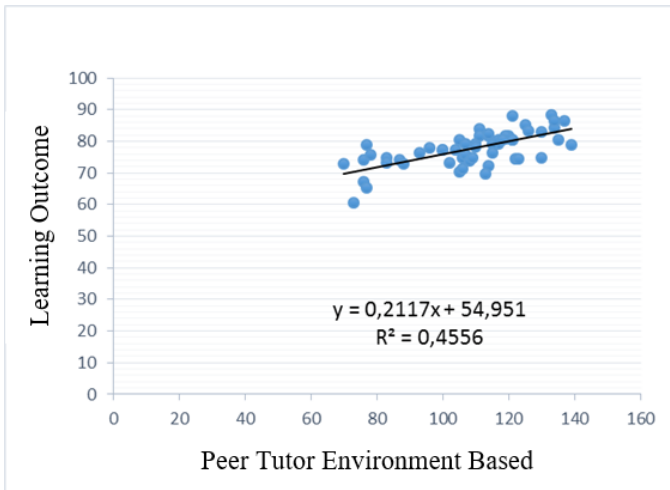


Fig 3. THE COEFFICIENT DIAGRAM ON THE INFLUENCE OF VARIABLE X TOWARDS VARIABLE Y

The result of the significance test in ANOVA table shows Sig. value is 0,000. Compared to value $\alpha = 0.05$, the Sig. value is smaller than α (Sig. $\leq \alpha$) which is $0.000 \leq 0.05$. This means that H_0 is rejected and H_a is accepted, then there is a significant influence between the work-based peer assisted learning towards learning outcomes. Based on the influence of work-based peer assisted learning on learning outcomes it can be seen by looking at the value of R2 in the Summary Model table. The obtained interpretation is R Square (R^2) value = $0,456 = 45,6\%$. This value indicates that the effect of variable X to variable Y is 45.6% and the influence of other variables is 54.4%.

DISCUSSION

The result of regression analysis showed that work-based peer assisted learning has 45.6% effect on the learning result. It is because in conveying the information it is more easily understood by tutee (friend taught) since they are in the same language, learners are more open in expressing difficulties because they are friends, relaxing learning atmosphere can eliminate fear, strengthen friendship, concepts are easy to be understood, learners are interested to be responsible which is to be an independent learning. Teaching peers provides opportunities and encourages learners to learn something well, and at the same time it becomes a resource for others.

Some experts believe that one lesson is completely mastered only when learners are able to teach other learners. According to Mel Silberman (2001), Peer-Assisted Learning is one of learning strategy based on active learning. Some experts believe that one lesson can be completely mastered only when learners are able to teach other learners. Peer-Assisted Learning (PAL) provides opportunities and encourages learners to learn something well, and at the same time it becomes a resource for others. Peer-Assisted Learning (PAL) is an effective way to produce peer teaching skills. Meanwhile, according to Chan, et. Al (2016) Peer-Assisted Learning is also known as 'peer tutoring', used as an

instructional or learning support strategy that utilises students to help or support other students that are struggle in academic. These studies are in-line with the research conducted by Fuchs, et.al (1999) about effects of PALS on high school students with serious reading problems. The result showed PALS students grew more on reading comprehension and reported more positive beliefs about working hard to improve reading.

Similarly, research by Comfort, P., & James McMahon, J. (2014) about the he effects of peer tutoring on both the tuto¹ and tutees, in a Sports Science. The results show a significantly greater academic achievement in the peer tutoring group (73.64 ± 10.26 per cent) compared to students that were not peer tutored ($46.20 \pm 20.27, p=0.003$) and compared to the previous years' cohort that were not peer tutored ($56.83 \pm 19.18, p<0.001$). Moreover, tutors also demonstrated significantly ($p<0.001$) higher grades (82.00 ± 11.01 per cent) compared to the students that did not act as peer tutors (64.88 ± 8.82 per cent).

IV. CONCLUSION

Based on the results of the analysis and discussion, it can be concluded that there is a significant positive influence between work-based peer assisted learning on students' learning outcomes majoring Mechanical Engineering State University of Makassar. The result of regression analysis showed that peer-based peer tutor had an influence on learning result of $\hat{Y} = 0,212 + 54,951$ with R Square 0,456 or 45,6%.

The result of the research on the influence of work-based peer assisted learning towards the learning outcome of Pneumatic and Hydraulic course has some limitations, so the authors propose some suggestions as follows: (1) need to do a relatively long and gradual research to obtain the objective data; (2) need special guidance for a tutor to be able to guide peers for the attainment of learning objectives and; (3) conduct an observation after the implementation of the learning process to know whether the peer-assisted learning method has increased or vice versa.

References

- [1] Akdom dan Riduwan, 2007. Rumusan dan data dalam analisis statistik. Cetakan kedua. Bandung: Alfabeta
- [2] Arikunto, 1995. dalam lib.unnes.ac.id. online accessed on 12 February 2018
- [3] Chan, N. N., Phan, C. W., Aniyah, S. N., & Dipolog-Ubanan, G. F. (2016). Peer assisted learning in higher education: Roles, perceptions and efficacy. *Pertanika Journal of Social Sciences & Humanities*, 24(4), 1817-1828.
- [4] Comfort, P., & James McMahon, J. (2014). The effect of peer tutoring on academic achievement. *Journal of Applied Research in Higher Education*, 6(1), 168-175.
- [5] Creswell, W.J. 2013. *Research Design, Pendekatan Kualitatif, Kuantitatif, dan Mixed*. Edisi Ketiga. Yogyakarta: Pustaka Pelajar
- [6] Edy Sutrisno, 2011. *Manajemen Sumber Daya Manusia*. Jakarta: Kecana Prenada Media Group. Tersedia [Http://eprints.uny.ac.id](http://eprints.uny.ac.id) accessed on 20 February 2018.
- [7] Fuchs, L. S., Fuchs, D., & Kazdan, S. (1999). Effects of peer-assisted learning strategies on high school students with serious reading problems. *Remedial and Special Education*, 20(5), 309-318.

- [8] Glynn, L. G., MacFarlane, A., Kelly, M., Cantillon, P., & Murphy, A. W. (2006). Helping each other to learn—a process evaluation of peer assisted learning. *BMC medical education*, 6(1), 18.
- [9] Hodgson, Y., Benson, R., & Brack, C. (2015). Student conceptions of peer-assisted learning. *Journal of Further and Higher Education*, 39(4), 579-597
- [10] Lohr, 2008. *Administrasi Perkantoran Modern*. Yogyakarta: Liberty
- [11] Mariyana Rita, dkk, 2010. *Pengelolaan Lingkungan Belajar*. Jakarta: Kencana Prenada Media Grup
- [12] Maryani, 2010. *Penerapan Metode Pembelajaran Tutor Sebaya Untuk Meningkatkan Prestasi Belajar Akuntansi Pada Siswa Kelas X Ak 1 Smk Batik 2 Surakarta Tahun Ajaran 2009/2010*. Unpublished Undergraduate Thesis. surakarta : Universitas Sebelas Maret.
- [13] Mel Sibernnen, 2001. *Strategi Pembelajaran Aktif (Active Learning)*, terj. Sarjuli dan Azfat Ammar, (Jakarta: Yakpendis, 2001)
- [14] Paulo Freire, 2001. *Menggugat pendidikan Fundamentalitas Konservatif Liberal Anarkis*, Yogyakarta: Pustaka Belajar.
- [15] Riduwan, 2007. *Pengantar Statistika untuk Penelitian Pendidikan, Sosial, Ekonomi, Komunikasi dan Bisnis*. Bandung: Alfabeta.
- [16] Sihombing, 2004 dalam ebookinga.com accessed on 16 February 2018
- [17] Sutrisno, 2009. *Belajar Dan Faktor-Faktor Yang Mempengaruhinya*, Jakarta: Rineka Cipta
- [18] Constitution of RI No.20 Year 2003 about National Education System. Bandung: Citra Umbara.

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