

THE EFFECT OF MOTIVATION AND WORK DISCIPLINE ON EMPLOYEE WORK PRODUCTIVITY IN INDONESIA COMPUTER UNIVERSITY.

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Abstract

At present, the world of education is grown rapidly, that is why a quality of good human resources are needed for competition. The company aims to increase employee work productivity or performance, level of efficiency, effectiveness and less time decrease the employee performances. Lack of work motivation caused the level of employee discipline. Therefore, various ways are carried out by the company to face several factors that lead to an increase or decrease in employee work productivity. In this study, there are some factors the cause of the increase or decrease in employee work productivity, researchers observed 2 (two) factors, namely motivation and work discipline.

The purpose of this research is to find out the motivation and discipline of work on the work productivity of Indonesian Computer University employees. Where the employee's work productivity is low, motivation is not optimal and work discipline is low.

This study uses a method of quantitative analysis with the number of respondents 152 respondents from the entire population of 152 people who are permanent employees at the Indonesian Computer University. Data were collected by observation and questionnaire and documentation study. The analytical method used is descriptive and verification. Data processing with SEM and Lisrel 8.7 software.

Simultaneous research results show that work motivation and discipline have a significant effect on employee work productivity. And partially motivation has a positive and significant effect on work productivity, and work discipline has a positive and significant effect on employee work productivity.

Keywords: Motivation, Discipline, Work Productivity





INTRODUCTION

The world of education is currently developing very rapidly, competition between educational institutions is not only from domestic institutions but also from foreign institution, this is one of considerations in determining the strategies to be taken by organization to adjust current conditions.

In order to improve the quality of universities in Indonesia, it is necessary to improve the quality of human resources, in this case, all members both lecturer and staffs in education supporting quality improvement in the world of education today. The power of educators and education staffs is a very influential in the high competition among universities.

Employee productivity is needed in improving the quality of students so Program Studi Magister Manajemen Fakultas Pascasarjana Universitas Komputer Indonesia that they can achieve the company goals effectively and efficiently. High employee productivity will result in maximum achievement at work. From the observations, we can see the completion of the work of employees at the Indonesian Computer University has never been done on time and not reached the target.

One factor that influences work productivity is employee work discipline. We can figure out the level of employee discipline in an organization by identifying the exact time of working hours. Indonesian Computer University has a total of 152 permanent employees, divided into several parts, namely study program secretariat staff, study program nonsecretariat staff, security guards and cleaning service staff.

The high and low discipline of work of employees generally, will affect

the productivity of an organization. To improve employee work discipline within the Indonesian Computer University environment, good motivation is needed, to encourage good work. Things that must be considered are prosperity issues, bonuses and rewards for a good work performance. The above is related to employee motivation, which encourages employees to work with a good spirit and performance. To prove this, the researcher intends to conduct the research with the title "The Impact of Motivation and Work Discipline of **Employees on Employee Productivity** of Indonesia Computer University"

LITERATURE REVIEW

Motivation

Motivation is a mental condition that encourages activity and energy which leads to the achievement of

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needs, satisfaction or imbalances reduction. (Beredom, Garry A. Stainer 2006 in Sri Widodo 2015: 164) Gibson (2013: 165) states that motivation is a force that encourages an

employee to act and control behavior.

Discipline

Siagian (2013: 305) defines a work discipline as a form of training that seeks to improve and shape knowledge, attitudes and behavior of employees so that employees will work cooperatively with other employees and improve their work performance. Sastrohardiwiryo (2002: 130) in SL Mandey (2014: 1594) stated that discipline was an act how to respect, obey, and ruled the regulations both written and unwritten and able to implement and accept the sanctions if they broke the rules or regulation against the responsibility given.

Productivity

Ardana, (2012: 270) states productivity as a comparison between the results achieved by the overall power or factors of production used.

Productivity can be interpreted as the level of comparison between outputs and inputs, (Bernardin, Russke 1993 in Sri Widodo 2015: 4).

Relationship between variables

- The link between motivation and work productivity
 Roni Faslah (2013: 50) explains that there is a positive and significant influence of motivation on employee work productivity at PT. Kabelindo Murni. Tbk
- The Relationship between work discipline and work productivity
 Shannon C. Y Assagaf's research (2015: 648) shows that discipline partially has a significant effect on the productivity of the Manado regional revenue office



METHOD

1. Research Object

The object that the author uses in this study is to determine the effect of work motivation and discipline on the work productivity of Indonesia Computer University employees, with a total of 152 respondents.

2. Research Methods

The method used in this research is descriptive and verification method. This research uses survey method. Data processing uses SEM with Lisrel software.

Research Design

The research design used in this study is causality research which aims to explain the causal relationship between the variables studied with the aim to determine the effect of work motivation and discipline on employee

productivity of Indonesia Computer

University employees.

Data collection technique

Data collection is done by:

- 1. Observation
- 2. Questionnaire
- 3. Interview
- 4. Study of literature

Validity and Reliability Instrument

Test

1. Validity Test

To test the validity of the instrument, this study only reviewed an internal validity. To find out whether each item in the instrument is valid or not, it can be known by calculating the correlation coefficient between item scores (viewed as X) with total scores (seen as Y). The correlation of *person's product moments* is calculated using r table. If r count is Jurnal Ilmiah Magister Manajemen

greater than r table, then the correlation of *person's product moments* for each statement item is valid (*1count* > *1table* Valid), because the data has an ordinal measurement scale.

The value of validity is basically the correlation value. Therefore, to test the validity is done with total item of correlation technique which is the basic of Pearson correlation.

2. Reliability Test

Test Reliability is a test used to determine the extent to which the results of a measurement can be trusted. The measurement results can be trusted if used in several measurements of the same group of subjects obtained relatively similar results, as long as the measured aspects in the subject do not change.

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According to Sugiyono (2012: 156), the reliability is related to the degree of consistency and stability of data or invention, a data is declared reliable if two or more researchers state the same results, or the same researcher at different times.

3. Hypothesis Testing

In LISREL, there is no significance value that can directly tell whether the relationship between a variable and other variables is significant.

There are three of very useful information per estimation on lisrel: regression coefficients, standard errors and t values. Standard error is used to measure the accuracy of each parameter estimate.

To determine the significance of the relationship between variables, the value of t must be greater than JIMM

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the t-table at a certain level depending on the sample size and level of significance.

At a significance level of 0.05, the t_{table} value is \pm 1.960, the following is the hypothesis used:H₀: exogenous variable (X) does not have a significant effect on endogenous variables (Y)

- H₀ : exogenous variable (X) doesnot have a significant effecton endogenous variables (Y)
- H₁ : exogenous variable (X) doesnot have a significant effecton endogenous variables (Y)

Test criteria:

- If t_{counts} > t_{table} then H₁ is accepted and H₀ is rejected
- If t_{counts} ≤ t_{table} then H₀ is
 accepted and H₁ is rejected
- 4. Statistics F Test

Statistical F test is to examine the effect of independent variables

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on the overall non-free variable. Based on the identification of the problems stated earlier, in this study, hypothesize as follows:

Simultaneous hypothesis between independent variables of organizational culture, motivation and work discipline towards employee work productivity.

- H₀ : Motivation (X₁), and Work
 Discipline (X₂) together do
 not have a significant
 effect on Productivity (Y)
 variables.
- H1 : Motivation (X1), and Work
 Discipline (X2) together
 have a significant
 influence on Productivity
 (Y) variables

The general hypothesis for each test is as follows:

 H_0 : there is no significant

influence

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 H_1 : there is a significant influence

Test criteria:

- Reject H₀ if $t_{counts} \ge t_{table}$ or $t_{counts} \le -t_{table}$

Accept H_0 if $t_{count} < t_{table}$ or t_{count}

 \geq - t_{table}

At the 0.05 level of

significance (5%) the t_{table}

value is 1.96.

RESULTS AND DISCUSSION

Resident Identity

The following is the respondent's

identity table:

Resident Identity

Catego	Amou	Percent	
ry	nt	age	
Age			
<31	25	16.4	
years			
31 -	94	61.8	
40			
years			
41 -	29	19.1	
50			
years			
> 50	4	2.6	
years			
Total	152	100	
Gender			



Male	72	47.4		
Wom	80	52.6		
an				
Total	152	100		
Education	n			
SD /	6	3.9		
SMP				
High	29	19.1		
Scho				
ol				
D3 /	113	74.3		
S 1				
S2 /	4	2.6		
S 3				
Total	152	100		
Length of	Length of work			
0-2	19	12.5		
year				
3-5	19	12.5		
years				
6-8	19	12.5		
years				
> 8	95	62.5		
years				
Total	152	100		
0 D		1: 2010		

Source: Data processed in 2018

Based on the table above, most respondents aged 31 to 40 years, as many as 94 respondents (61.8%); the next most are those aged 41 to 50 years as many as 29 respondents (19.1%); then those who were less than 31 years old were 25 respondents (16.4%); and the least are those aged more than 50 years, which are 4 respondents (2.6%).

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Based on Gender, most of the respondents were female, namely 80 respondents (52.6%) and male as many as 72 respondents 47.4%.

Based on education, the majority of respondents have a D3 / S1 education that is as many as 113 respondents (74.3%), then those who have a high school education are 29 respondents (19.1%), who have SD (elementary) / SMP (junior high school) education as many as 6 respondents (3.9 %), and those who have a S2 / S3 education are 4 respondents (2.6%).

Based on the length of work, the majority of respondents have worked for more than 8 years, namely 95 respondents (62.5%), while the rest have worked for 6 years to 8 years, for 3 years to 5 years, and less than 3 years each 19 respondents (12.5%).

Recapitulation of Respondents'

Responses About Motivation (X1)

Responses About Motivation			
Indicator	Mea	Scor	Categor
	n	e	У
Salary /	810	2.66	Good
Wage			enough
Bonus	1045	3.44	Good
Award	1185	3.90	Good
Working	1175	3.87	Good
Conditions			
Responsibilit	1136	3.74	Good
у			
Total and	5351	3,52	Height
average			

Recapitulation of Respondents'

Source: Data processed in 2018

Overall the results of processing presented in table 4.13 produces a score of 810 and an average value of 2.66 for the salary / wage indicator, for the bonus indicator produces a score of 1045 with an average value of 3.44, the award indicator gets a score of 1185 with a value an average of 3.90, then the work condition indicator gets a score of 3.87 with an average value of 3.87 and for the responsibility indicator of 1136 with an average of 3.74. The total indicator is 5351 with an average of 3,

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52. The mean value is entered into the continuum line, the measurement of which is determined in the following way:

- Maximum Index Value 5 _
- Minimum Index Value = 1
- Interval distance =

maximum value - minimum value]: 5

= [5 - 1]: 5= 0.8

Overall average = [(total score): (number of respondents x number of questions)]

> = [(5351): (152x10)]= 3.52

The calculation shown that the score obtained is 5351 with an average of 3.52. Therefore we can conclude that the response of respondents regarding the motivation of Unikom employees overall are in good category. This is because the company has implemented what the employee's demands, by



looking at the results of respondent, several indicators of motivation that all respondents indicate high criteria in answering.

Recapitulation of Respondents

Response About Work Discipline (X2)

Recapitulation of Respondents Responses About Work Discipline

Indicator	Score	Mean	Category
Punctuality	1171	3,85	Good
Obedience to Regulations	1821	3,99	Good
Implementing Tasks and Obligations	1222	4,02	Good
Total and average work discipline	4214	3,95	Good

Source: Data processed in 2018

Overall the processing results presented in the table produce a total score of 4241 with an average of 3.95. The mean value is entered into the continuum line, the measurement of which is determined in the following way:

- Minimum Index Value = 1
- Interval distance =[maximum value minimum value]: 5
 - = [5 1]: 5
 - = 0.8

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Overall average = [(total score): (number of respondents x number of questions)]

= [(4241): (152x7)]

= 3.95

The calculation shown the indicator of timeliness gets a score of 1171 with an average value of 3.85, for the indicator of obedience with the rules get a score of 1821 with an average value of 3.99, and for indicators fulfilling tasks and obligations with a score of 1222 with on average 4.02. The total score obtained was 4241 with an average of 3.95. Therefore we can conclude that the respondent's response to the work discipline of Unikom's employees is in good category as whole.

Recapitulation of Respondents' Responses About Productivity (Y)



Recapitulation of Respondents' Responses on Productivity (Y)

Indicator	Score	Mean	Category
Effective	1191	3,92	Good
Efficient	1208	3,97	Good
Time	1231	4,05	Good
Total and average productivity	3630	3,98	High

Source: Data processed in 2018

Overall the processing results presented in the table produce a total score of 3630 with an average of 3.98. The mean value is entered into the continuum line, the measurement of which is determined in the following way:

- Maximum Index Value = 5
- Minimum Index Value = 1
- Interval distance = [maximum value minimum value]: 5

= [5 - 1]: 5 = 0.8

• Overall average = [(total score): (number of respondents x number of questions)]

$$=[(3630): (152x6)]$$

= 3.98

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From the calculation in shows the score obtained is 3630 with an average of 3.98. Therefore we can conclude that the responses of respondents regarding Productivity (Y) of Unikom employeesare in the high category as whole.

Normality test

The most fundamental assumption in multivariate analysis is normality, which is a form of data distribution in a single metric variable in producing a normal distribution. Data is unusual if data distribution that does not form a normal distribution, otherwise the data is said to be valid if it forms a normal distribution. If the assumption of normality is not got and the deviation of normality is large, then all the results of statistical tests are invalid because the calculation of the ttest and so forth is calculated by assuming norm: 1 1 Ghozali, 2014:

37). Based on the results of the *Test of Multivariate Normality for Continuous Variables* mentioned above, the overall model shows that it meets the assumption of normality, where the *Pvalue of Skewness and Kurtosis* is 0.060 higher than 0.05.

Multicollinearity Test

The next assumption tested is multicollinearity. Multicollinearity means there is a very high correlation between exogenous latent variables. Multicollinearity can be detected by the correlation method, if there is a valuable correlation higher than 0.8, it means that there is multicollinearity between exogenous variables.

The correlation value between Motivation (X_1) and Discipline (X_2) is 0.46. Because all the correlation values between the exogenous variables are lower than 0.8 so that there is no multicollinearity.

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Measurement Model

This evaluation is carried out on each measurement construct or model (the relationship between latent variables and observed variables) separately through the validity and reliability of the measurement model. A variable is defined to have good validity for the construct or latent variable if the factor load value is standard (standardized loading factor) greater than or equal to the critical value of 0.50 or the standard factor loading t value (standardized loading factor) greater than or equal with a critical value of 1.96. While reliability measurement uses construct reliability measure and average variance extracted with the following formula:

Construct Reliability =
$$\frac{\left(\sum \text{Standardized Loading}\right)^{2}}{\left(\sum \text{Standardized Loading}\right)^{2} + \sum \varepsilon_{j}}$$
Variance Extracted =
$$\frac{\sum \text{Standardized Loading}^{2}}{\sum \text{Standardized Loading}^{2} + \sum \varepsilon_{j}}$$

where *standardized loading* can be obtained directly through the LISREL program application *output*, and ε_j is a *measurement error* for each indicator or observed variable. The *cut-off* level to say that *construct reliability* is good is greater than 0.60, while the *cut-off* level can say that the *average variance extracted* well is greater than 0.50.

There is a significant influence of

Motivation (X₁) on Productivity (Y) Statistical hypothesis:

H₀₁ : Motivation (X₁) has no
significant effect on Productivity (Y)
H₁₂ : Motivation (X₁) has a
significant effect on Productivity (Y)

From the calculation results obtained the path coefficient value ρ_{yx2} = 0.30 with the value of t_{count} = 3.71. The path coefficient value above shows a unidirectional relationship between Motivation (X₁) and Productivity (Y), because it is positive (0.30> 0). This Jurnal Ilmiah Magister Manajemen

means that if motivation increases, productivity will increase, and vice

versa.

Value on t_{table} with a significance level of 0.05 is \pm 1.96 so that t_{count} (3.71) > t_{table} (1.96). Thus the coefficient is significant, H₀₁ is rejected and H₁₂ is accepted, meaning **that there is a significant influence of Motivation** (X1) on Productivity (Y). There is a significant influence of Work Discipline (X2) on Productivity (Y)

Statistical hypothesis:

 H_{02} : Work Discipline (X2) has nosignificant effect on Productivity (Y) H_{13} : Work Discipline (X2) has asignificant effect on Productivity (Y)

From the calculation results obtained the path coefficient value ρ_{yx2} = 0.36 with the value of t_{count} = 4.58. The path coefficient value above shows a unidirectional relationship between

Work Discipline (X₂) and Productivity (Y), because it is positive (0.36> 0). Meaning if Work Discipline increases, Productivity will increase, and vice versa.

The value at t_{table} with a significance level of 0.05 is ± 1.96 so that t_{count} (4.58)> t_{table} (1.96). Thus the coefficient is significant, H_{02} is rejected and H_{13} is accepted, meaning that **there is a significant influence on Work Discipline (X3) on Productivity (Y).**

CONCLUSION

The results of research on the influence of motivation and work discipline on the contribution of Indonesia Computer University employees, concluded as below:

a. Motivation of Indonesia
 Computer University employees

 in the high category, with a score
 of 5351 with an average value of

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- 3.52. The highest score on the
 award indicator with an average
 value of 3.90 with a good
 category while the lowest score
 on the salary / wage indicator is
 810 with an average of 2.66 in the
 category of good enough.
- b. Indonesia Computer University Employee's work discipline is in good category, with a score of 4241 with an average value of 3.95. The highest score on the indicator performs tasks and obligations of 1222, with an average of 4.02 in the good category and the lowest score on the accuracy indicator time with an average of 3.85 with a good category.
- c. Work productivity of Indonesia
 computer universities is in the
 high category, with a score of
 3630 with an average value of

3.98. The highest score on the time indicator is 1231 with an average value of 4.05 in the good category and the lowest indicator on the effective indicator evenly3.92 in good category.

- The motivation of Indonesia
 Computer University employees
 has a significant influence on the
 positive direction of employee
 work productivity. This shows
 that if motivation is high,
 productivity will be high.
- 3. Indonesia Computer University employee work discipline has a significant influence on the positive direction of employee work productivity. This shows that if work discipline is good then productivity will be high.

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