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Analysis of the Effect of Information Technology and Organizational Culture Through Motivation on Lecturer Performance Quality

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Abstract: Lecturer performance can be influenced by several things such as the ability to use information technology, organizational culture, and self-motivation. This study aims to determine the effect of information technology, organizational culture on lecturer performance through motivation. The survey method was used in collecting data on 150 lecturers who were randomly selected as research samples. The questionnaire results data are then processed with Structural Equation Modelling (SEM) using WarpPLS 6.0. The results of this study indicate that motivation directly has a significant effect on lecturer performance. Information technology and organizational culture indirectly through motivation have a significant influence on lecturer performance.

1 INTRODUCTION

Higher Education is a place for educational providers that aim to produce quality human resources and be able to face increasingly fierce work competition (Yahya Hidayati, 2014). Ramli and Jalinus revealed that lecturer performance needs to be maintained considering lecturers are an important component of the quality of higher education so that they are able to produce graduates with good quality. The performance of lecturers as instructors influences the quality of the process and results of higher education (Kusumajati, 2017; Amang, 2011; Angrist, 2014). Therefore, lecturer development and performance measurement are very important (Indrajit, 2007).

Performance is the result of work or activities obtained during a certain period (Mangkunegara, 2009). The quality and commitment of lecturers is the main key to the success of higher education institutions (Amang, 2011; Angrist, 2014). The performance of the lecturer must be guided by the tri dharma of higher education covering the principles of education, research, and community service. One form of lecturer work indicator is seen from scientific publications carried out, both from research and service. The scientific publications of Indonesian lecturers are still estimated to be 5,125 publications, under Malaysia which have reached 5,999 publications. Even though the number of

publications is number two in ASEAN, the level of citation is decreasing (Seftiawan, 2018).

The factors that influence the achievement of performance are the ability factor (ability) and motivation factor (motivation) (Mangkunegara, 2009). Wigfield (2014) stated that the motivation is an impulse in a person to be able to do something to achieve certain goals to the fullest. Work motivation is also one of the factors that influence lecturer performance (Broni, 2012; Samuel et al, 2015). Motivation has a significant positive effect on company performance (Ayu and Suprayetno, 2008). At the college level, work motivation also has a positive and significant effect on the quality of the performance of lecturers (Riyadi et al, 2017; Sulastri, 2007). Samuel et al (2015) Revealed that there is a correlation between motivation and lecturer performance based on research at Ghanaian Polytechnics, where motivation contributes to a variation of 79.5% and can predict performance significantly. Motivation is beneficial and leads to initiation and innovation based on research with the object of Staff at the University of Ghana (Broni, 2012). Research in 2018, on staff at Alvan Ikoku's Federal College of Education (AIFCE) shows that work motivation can affect work performance (Olusadum and Anulika, 2018).

Factors that can affect one's motivation include culture in an organization. Organizational culture is the values that are accepted by all members of the organization as

a basis for behaviour and carrying out activities within the organization (Robbins and Coulter, 2012). Furthermore, Ritawati (2013) stated that organizational culture also has a positive and significant influence on one's performance. Organizational culture in a company is also an influence on improving employee performance (Ayu and Siprayetno, 2008). Good organizational culture can increase the work motivation of lecturers to improve their performance both directly and indirectly (Narasuci, 2018).

In addition to work culture, some research also shows that the ability to use information technology of each individual can increase employee productivity in saving time and performance to reach the organization (Abbas et al, 2014; Bhakta, 2016; Jahanian et al, 2012; Zhaled, 2014). The implementation of information technology has a major impact on improving the performance of lecturers in delivering material to students to improve the quality of students (Karsen, 2015). In the information technology variable, the personal acceptance of new technology, and what is deemed appropriate and effective can be evaluated with the UTAUT (Unified Theory of Acceptance and Use of Technology) model (Vankatesh et al, 2003).

The management of tertiary institutions must guarantee a thorough and continuous assessment of lecturer performance to improve the quality of lecturers and the overall quality of management (Peleyeju and Ojebiyi, 2013). The evaluation of lecturer performance is a serious challenge for university managers (Bai et al, 2014). Some of the main factors that influence performance are the individual's ability to do work, the level of effort devoted and organizational support (Mathis and Jackson, 200).

In this regard, the researcher will examine factors related to the performance of the lecturers at the Universitas Negeri Semarang, including work motivation, information technology use, and cultural factors. Of the three factors will be examined its effect on the performance of the lecturer at Universitas Negeri

Semarang. The performance evaluation of lecturers in this research refers to the lecturer workload of Universitas Negeri Semarang. Next in part II will discuss the methods, then Part III discusses the analysis process, results, and discussion. While the conclusions are in section IV.

2 METHODS

This research was conducted using a quantitative approach to the process of collecting data using survey methods. The instrument used in data collection was a questionnaire that had a total of 30 indicators divided into 5 variables, that are information technology which had 6 indicators, organizational culture with 11 indicators, motivation with 7 indicators, and lecturer performance with 6 indicators. The study population was lecturers at Semarang State University where 150 lecturers were randomly selected as samples. Analysis using Structural Equation Model (SEM) supported by WarpPLS 6.0 software. Data analysis was performed by looking at the results of convergent validity, discriminant validity, and composite reliability to determine the effect of latent variables with their constituent indicators. Path coefficients are used to see the direct and indirect relationship between information technology and organizational culture through motivation as to lecturer performance.

3 RESULTS AND DISCUSSIONS

Based on the results of the questionnaire results to 150 lecturers containing 30 forming indicators of the 4 variables studied the following results were obtained.

3.1 Convergent Validity

This evaluation is done by taking into account the outer loading value of each variable in this study, and if the value shows is greater than 0.50 then the item is declared valid. The calculation results presented below are derived from the results of the WarpPLS output:

Table 1. Loading factor each item

Variables	Items	Loading	T value	P value	Variables	Items	Loading	T value	P value
LP	LP.1	0.569	7.904	<0.001	OC	OC.4	0.723	10.392	<0.001
	LP.2	0.515	7.069	<0.001		OC.5	0.506	6.936	<0.001
	LP.3	0.631	8.893	<0.001		OC.6	0.665	9.439	<0.001
	LP.4	0.764	11.081	<0.001		OC.7	0.558	7.739	<0.001
	LP.5	0.671	9.535	<0.001		OC.8	0.519	7.132	<0.001
	LP.6	0.725	10.432	<0.001		OC.9	0.658	9.321	<0.001
IT	IT.1	0.608	8.525	<0.001	OC.10	0.761	11.043	<0.001	
	IT.2	0.832	12.253	<0.001	OC.11	0.728	10.483	<0.001	
	IT.3	0.737	10.627	<0.001	M	M.1	0.658	9.322	<0.001
	IT.4	0.715	10.266	<0.001		M.2	0.684	9.753	<0.001
	IT.5	0.637	8.981	<0.001		M.3	0.512	7.024	<0.001
	IT.6	0.613	8.605	<0.001		M.4	0.700	10.014	<0.001
OC	OC.1	0.569	7.909	<0.001		M.5	0.575	8.008	<0.001
	OC.2	0.689	9.825	<0.001		M.6	0.744	10.744	<0.001
	OC.3	0.732	10.540	<0.001		M.7	0.700	10.010	<0.001

The table 1 explains that the overall loading factor value of the variables in this study is greater than 0.5, the T-Value is greater than 1.97 and the P-Value is less than 0.05 so that the items on these variables has been able to be formed or explained well by the items or can be said to be valid in a convergent manner.

3.2 Discriminant Validity

This evaluation is done by using a cross loading value and the value of average variance extracted (AVE) discriminant validity from the

measurement model that is assessed based on the measurement of cross loading with variables. If the variable correlation with the measurement principal for each item is greater than the other variables, the latent variable is able to predict items better than other variables.

Cross Loading. This value is another measure of discriminant validity. The expected value that each indicator has a higher loading for the measured construct compared to the loading value to another construct.

Table 2. Cross loading each item

Items	LP	IT	OC	M	Items	LP	IT	OC	M
LP.1	0.569	0.112	0.027	0.080	OC.4	-0.018	-0.010	0.723	-0.105
LP.2	0.515	-0.064	0.166	0.124	OC.5	0.055	0.188	0.506	0.046
LP.3	0.631	0.007	-0.139	0.193	OC.6	-0.047	-0.101	0.665	-0.162
LP.4	0.764	0.043	0.006	-0.193	OC.7	0.101	0.030	0.558	0.210
LP.5	0.671	-0.148	0.024	0.089	OC.8	-0.084	0.052	0.519	0.162
LP.6	0.725	0.044	-0.047	-0.198	OC.9	-0.111	-0.011	0.658	0.234
IT.1	0.003	0.608	-0.044	-0.005	OC.10	-0.074	-0.238	0.761	0.091
IT.2	0.037	0.832	0.023	-0.122	OC.11	0.026	-0.200	0.728	0.099
IT.3	0.022	0.737	-0.030	-0.171	M.1	-0.053	-0.105	0.207	0.658
IT.4	0.009	0.715	-0.056	0.011	M.2	-0.019	-0.065	-0.032	0.684
IT.5	0.068	0.637	-0.125	0.061	M.3	0.046	-0.030	0.121	0.512
IT.6	-0.161	0.613	0.243	0.299	M.4	0.198	0.001	-0.017	0.700
OC.1	0.158	0.110	0.569	-0.189	M.5	-0.007	-0.030	-0.144	0.575
OC.2	0.041	0.088	0.689	-0.240	M.6	0.037	0.050	-0.130	0.744
OC.3	-0.007	0.201	0.732	-0.086	M.7	-0.196	0.156	0.021	0.700

Based on the table 2, it can be concluded that each question item is able to be predicted

well by each of its latent variables, because the correlation of latent variables is greater than

other variables so it can be concluded that these variables are discriminatory valid.

3 Average Variance Extracted. The AVE value is used to measure the amount of variance

that can be captured by the construct compared to the variance caused by the measurement error

Table 3. AVE each variable

Variable	AVE	Root Square AVE
LP	0.424	0.651
IT	0.483	0.695
OC	0.425	0.652
M	0.432	0.658

Table 4. Root square correlation AVE between latent variables

Variables	LP	IT	OC	M
LP	0.651	0.285	0.304	0.316
IT	0.285	0.695	0.434	0.458
OC	0.304	0.434	0.652	0.539
M	0.316	0.458	0.539	0.658

Based on the table 3 and 4, the evaluation of the measurement model by comparing the AVE square root with the correlation between variables, it can be concluded that the value of the AVE square root is greater than the correlation between latent variables which means that the results are declared discriminatory valid. The results also show that all AVE root square values are greater than

0.500 which means that discriminant validity is good and the measurement model is also good.

3.3 Composite Reliability

This test is carried out by utilizing the value of composite reliability which results can be seen as follows:

Table 5. Composite and Cronbach alpha

Variable	Composite Reliability	Cronbach Alpha
LP	0.813	0.724
IT	0.847	0.781
OC	0.889	0.861
M	0.840	0.778

Evaluation of measurements using Composite Reliability and Cronbach Alpha is done to determine whether the high or low reliability of the variable. Measurement values greater than 0.700 indicate that the variable is reliable. Based on the table 5, the results show that the entire value of Composite Reliability and Cronbach Alpha for each variable is greater than 0.700 which means that all variables have high reliability.

3.4 Path Coefficient

The test is done by looking at the P-value as a significance level and the beta value as the path coefficient between latent variables

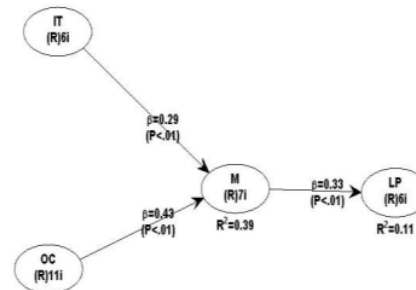


Fig 1. Structural Equation Model

Table 6. Path Coefficient

Path	Path Coefficient	P values
TI->M	0.285	<0.001
OC->M	0.412	<0.001
M->LP	0.447	<0.001
TI->M->LP	0.127	0.012
OC->M->LP	0.184	0.184

From the results shown by the table 6 and figure 1, it can be seen that all paths from the dependent variable to the independent variables directly have a significant effect. the path coefficient produced from IT to M is 0.285, then from OC to M is 0.412, and from M to LP is 0.447. Then if you see the effect of the independent variable indirectly on the dependent variable, it can be seen if the P-value is less than 0.05 so that it has a significant effect on the path coefficients from IT and OC to LP through M, respectively 0.127 and 0.184

4 CONCLUSION

Based on the result and analysis of research data with a sample of 150 lecturers in Universitas Negeri Semarang, it can be inferred that all independent variables have a significant effect on the dependent variable both directly and indirectly. Information technology variable has a positive effect on the motivation of 0.285. Organizational culture variables has a positive effect on motivation with path coefficient of 0.412. Motivational variables has a positive effect on lecturer performance with path coefficient of 0.447. Information technology variables indirectly through motivation has a positive effect on lecturer performance with path coefficient of 0.127. The variable of organizational culture indirectly through motivation has a positive effect on lecturer performance with path coefficient 0.184.

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