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## The Role of Perceived Teaching Quality as Mediator Variable That Affects Student Satisfaction

Sopiah Sopiah<sup>1\*</sup>, Ita P. Wilujeng<sup>1</sup>, A. Murdiono<sup>1</sup>, Etta Mamang Sangadji<sup>2</sup>

#### ARSTRACT

The purpose of this research is to explain the role of perceived teaching quality as a mediator variable that affects student satisfaction. Data was obtained from 180 lecturers and 600 students from 6 state and private universities in Indonesia. The sampling technique used was multistage sampling. The analysis technique used was statistical descriptive and path analysis. The research proves research: 1) There is a positive and significant direct effect of lecturer competency on perce 2 ed teaching quality; (2) There is a significant positive direct effect of lecturer competency on student satisfaction; (3) There is a significant positive direct effect of lecturer competency on student satisfaction (4) There is a significant 2 positive indirect effect of lecturer competency on student satisfaction through perceived teaching quality; (5) There is a positive and significant direct effect of lecturer commitment to academic achievement on perceived teaching quality; (6) There is a significant positive direct effect of lecturer commitment to academic achievement on student satisfaction; (8) There is a significant positive indirect effect of lecturer commitment to academic achievement on student satisfaction; (8) There is a significant positive indirect effect of lecturer commitment to academic achievement on student satisfaction; (8) There is a significant positive indirect effect of lecturer commitment to academic achievement on student satisfaction through perceived teaching quality.

Keywords: Perceived teaching quality, Mediator variable, Student satisfaction, Path analysis

## 1. INTRODUCTION

Research with the theme of lecturer commitment and lecturer competence, learning quality, and student satisfaction has attracted the interest of educators and researchers in the educational field, including; Kevin M. Elliott & Dooyoung Shin (2010); Al-Mutairi, A. (2011); Minakshi Duggal, Pooja Mehta; Wamala, R. & Seruwagi, G. (2013); Muzenda, A. (2013); Choi Sang Long, Zaiton Ibrahim & Tan Owee Kowang (2014; Bonney, EA, Amoah, DP, Micah, SA, Ahiamenyo, C., & Lemaire, MB (2015); Dian Anggraini Kusumajati, Justin Suhardi Ruman. (2017); Ng Chiaw Gee (2018).

This research is important and is still relevant because it has a number of updates, including (1) Most researchers do not examine lecturer competencies comprehensively (include: pedagogical competencies, social competencies, personality competencies and academic competencies), but only partial and noticing from one or two competencies; (2) The level of research scope. Most studies are narrow in scope. This research is wider in scope, including 180 lecturers and 600 students in 6 State and Private Iniversities in Indonesia; 3). Theoretically and empirically this study seeks to find clarity about the interrelationships between variables, because there are still many different or even contradictory opinions.

Student satisfaction is an important factor and serves as one of the spearheads for measuring college performance. Satisfied students will attract other prospective students to enter higher education. Satisfied students will talk to others and it is a free promotion for the college concerned. Therefore, student satisfaction becomes an urgent variable to continue to explore in order to obtain empirical evidence about the causes.

Based on the literature study, a number of variables were found that affects student satisfaction including: lecturer competency, lecturer commitment to academic achievement and perceived teaching quality.

The 1 ality of operational learning can be interpreted as the intensity of systemic and synergic linkages between teachers, students, the learning climate, and learning media in producing optimal learning processes and outcomes in accordance with curricular demands (Haryati & Rochman, 2012). According to Daryanto mentioned that the quality of learning is a level of achievement of the initial learning 1 als including the learning of art, in the achievement of these objectives in the form of increased knowledge, skills and the development of students' attitudes through the learning process in class (Prasetyo, 2013).

Lecturer competency is defined as a combination of talents and abilities possessed by lecturers. Includes pedagogic, personal, professional and social competencies. Lecturer commitment to academic achievement is defined as the willingness of lecturers to work hard and provide energy

<sup>&</sup>lt;sup>1</sup> Department of Management, Faculty of Economics, Universitas Negeri Malang, East Java, Indonesia

<sup>&</sup>lt;sup>2</sup> Department of Economics Education, Universitas Wira Negara Pasuruan, East Java, Indonesia

<sup>\*</sup>Corresponding author. Email: sopiah.fe@um.ac.id



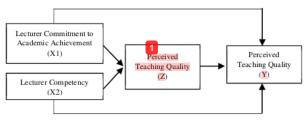
and time to support the academic achievement of the students.

Based on several researches, Lecturer Commitments to Academic Achievement, the positive and significant direct effect on Perceived Teaching Quality (Xiao, J. and Wilkins, S. (2015); Ahmad, J., Ather, MR, & Hussain, M. (2014). Lecturer Competency has positive and direct effect on Perceived Teaching Quality (Choi Sang Long, Zaiton Ibrahim & Tan Owee Komang (2014); Xiao, J. and Wilkins, S. (2015); Ng Chiaw Gee (2018). Lecturer competency has significant positive direct effect on student satisfaction (Lelya Hilda (2018); Suasan (2014); Deddy Prihadi (2018); Butt, BZ, & Rehman, K. (2010). The Effect of Lecturer Competency on Student Satisfaction (Choi Sang Long, Zaiton Ibrahim & Tan Owee Komang (2014); The effect of perceived Teaching Quality on Student Satisfaction (Akareem, HS & Hossain, Sy.Sh (2016); Butt, BZ, & Rehman, K. (2010). Indirect Effect of Lecturer Commitment to Academic Achievement on Student Satisfaction through Perceived Teaching Quality (Xiao, Jian. (2015), Al- Kuwaiti, A. Maruthamuthu, Th. (2014); Sookdeo, Suzette S., (2016). Indirect Effect of Lecturer Competency on Student Satisfaction through Perceived Teaching Quality (Jiewanto, A, Laurens, C & Nelloh, L (2012); Hakim, A. (2015); Leyla Temizer, Ali Turkyilmazb (2012).

The purpose of this research is to explain the effect of turer competence and lecturer commitment on student satisfaction directly or indirectly through the quality of learning perceived by students.

#### 2. METHOD

This research was designed using a quantitative approach. The type is explanatory research. The research variables consist of: exogenous variables, i.e. lecturer variable's commitment to academic achievement (X1) and competency lecturer (X2); moderating variable, which is perceived teaching quality (Z), and endogenous variable, namely student satisfaction (Y). Relationships that occur between the variables in this study can be described as follows:



Picture 1. Research Framework

The population in this study were all lecturers and students of colleges/ universities in the city of Malang. The sampling technique is multistage. The first stage determines which colleges will be sampled, determined by 6 Colleges/ Universities. The second stage determines the sample size of each College/ University professionally. The number of samples is determined in a quota taking into account the number of students in each college/ university, set as many as 180 lecturers and 600 students in Indonesia. Before being used in research, research instruments (questionnaires) are tested first. A good instrument must meet two important requirements, namely valid and reliable.

Validity test is used to measure or test the items of each question in the questionnaire or questionnaire that will be filled in by the respondent. Sugiyono (2015) stated thether the instrument was valid or not by looking at the magnitude of the correlation coefficient (r) > 0.3 declared valid. Test the validity of the variable items of this study using SPSS Statistics Version 16 for windows software. Here are the results of testing the instrument that has been carried out:

Table 1. Validity Test Variable: X1 (Lecturer's Commitment to Academic Achievement)

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach' Alpha if Item Deleted
X1.1a	30.03	17.068	.725	.941
X1.1b	30.07	15.720	.805	.936
X1.1c	29.90	16.438	.830	.934
X1.2a	29.87	16.395	.838	.934
X1.2b	30.33	15.747	.843	.933
X1.3a	30.20	15.752	.870	.931
X1.3b	30.30	16.562	.658	.947
X1.3c	29.87	16.395	.838	.934



Variable: X2 (Lecturer Competency) Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
X2.1a	71.23	95.220	.800	.965
X2.1b	71.37	94.654	.795	.965
X2.1c	71.57	93.289	.864	.964
X2.1d	71.67	95.540	.647	.967
X2.1e	71.70	92.286	.761	.966
X2.2a	71.40	95.352	.748	.966
X2.2b	71.50	96.879	.561	.969
X2.2c	71.60	92.041	.918	.964
X2.2d	71.57	93.771	.769	.966
X2.3a	71.67	93.471	.799	.965
X2.3b	71.77	91.909	.831	.965
X2.3c	71.50	94.466	.797	.965
X2.3d	71.60	96.593	.684	.967
X2.3e	71.63	94.999	.851	.965
X2.4a	71.43	93.426	.790	.965
X2.4b	71.27	95.168	.805	.965
X2.4c	71.23	95.220	.800	.965
X2.4d	71.77	91.909	.831	.965

# Variable: Z (Perceived Teaching Quality) Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Z.1a	37.43	27.426	.761	.945
Z.1b	37.63	26.171	.915	.938
Z.1c	37.73	27.375	.682	.949
Z.1d	37.77	25.564	.804	.944
Z.2a	37.30	27.734	.764	.945
Z.2b	37.77	26.254	.873	.940
Z.2c	37.63	26.171	.915	.938
Z.2d	37.57	27.357	.758	.945
Z.3a	37.67	28.713	.607	.951
Z.3b	37.70	27.666	.808	.944

## Variable: Y (Student Satisfaction) Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted	
Y.1a	62.93	74.754	.790	.966	
Y.1b	63.03	76.447	.695	.968	
Y.1c	63.07	74.961	.871	.965	

Y.1d	62.83	75.385	.755	.967
Y.2a	62.77	77.564	.666	.968
Y.2b	62.93	77.030	.542	.970
Y.2c	63.03	73.137	.866	.965
Y.2d	63.07	72.064	.920	.964
Y.3a	63.00	74.621	.844	.966
Y.3b	63.10	73.059	.861	.965
Y.3c	63.20	71.752	.882	.965
Y.3d	62.87	73.568	.805	.966
Y.4a	62.70	75.666	.770	.967
Y.4b	62.67	75.816	.755	.967
Y.4c	63.10	73.059	.861	.965
Y.4d	63.20	71.752	.882	.965

All items of 4 variables were declared valid because the value of r hit > 0.3 (Sugiyono (2015).

After the validity test, the reliability test was carried out, by looking at the Cronbach alpha value. The four variables are said to be reliable because they have an alpha coefficient a > 0.6. Here are the results of the reliability test.:

Table 2. Reliability Test Results Table

No	Variable	Alpha Coefficient	Alpha Coefficient Standard	Result
1.	Lecturer commitment to academic achievement (X1)	944	0,6	Reliable
2.	Lecturer competency (X2)	.968	0,6	Reliable
3.	Perceived Teaching Quality (Z)	.949	0,6	Reliable
4.	Student Satisfaction(Y)	.968	0,6	Reliable

The technique of data collection is done by spreading closed questionnaires with 5 alternative choices: strongly agree, agree, neutral, disagree and strongly disagree. After the data is collected, data analysis is performed using descriptive statistics and path analysis.

## 3. RESULT AND DISCUSSION

1. Characteristics of Respondents
Respondents in this study consisted of 180 lecturers and 600
students from 6 state and private universities in Indonesia.
Descriptions of respondents based on age, gender, and faculty can be seen in the following table:



Table 3. Description of Respondents by Age

No	Age	Frequency	Percentage (%)
1	< 30 year	110	0,18
2	30.1 - 40 years	130	0,22
3	40.1>50 year	206	0,34
4	>51	154	0,26
	Total	600	100

Table 4. Description of Respondents by Gender

No	Gender	Frequency	Percentage (%)
1	Female	292	0,48
2	Male	308	0,52
	Total	600	100

Table 5. Descriptions of Respondents by Faculty

No	Faculty	Frequency	Percentage (%)
1	Economy	125	0,20
2	Education	98	0,16
3	Language	92	0,15
4	Techniques	105	0,18
5	MIPA	105	0,17
6	Others	45	0,07
	Total	600	100

2. Descriptive Statistics Analysis Results Lecturer commitment to academic achievement in this study is measured by 3 indicators, namely: 1) Lecturers Commitment to improve student competence, 2) Lecturers Commitment to increase student motivation and 3)

Lecturers Commitment to create a conducive learning environment. The three indicators are explained into 8 statement items. Here are the results:

Table 6. Results of Descriptive Analysis of Lecturer's Commitment to Academic Achievement (X1)

	Respondents' Answers										
Item No		5		4		3		2		1	Mean
	F	%	F	%	F	%	F	%	F	%	
X1.1a	37	3,1	33	2,8	130	11,0	400	66,7	0	0	2,51
X1.1b	264	22,4	298	25,3	38	3,2	0	0	0	0	4,38
X1.1c	262	22,3	312	26,5	26	2,2	0	0	0	0	4,39
X1.2a	19	1,6	9	0,8	183	15,5	389	33,1	0	0	2,43
X1.2b	286	24,3	287	24,4	24	2,0	3	0,3	0	0	4,43
X1.3a	29	2,5	41	3,5	151	12,8	379	32,2	0	0	2,53
X1.3b	267	22,7	320	27,2	11	0,9	2	0,2	0	0	4,42
X1.3c	288	24,5	288	224,5	22	1,9	2	0,2	0	0	4,44
				Grand Mea	n						3,69

Table 6 explains that the grand mean of the lecturer commitment variable to academic achievement (X1) is 3.69 including the high category. The lowest score on the 3. Lecturer Competency (X2)

Lecturer Competency (X2) variable is measured by 4 competencies (dimensions), namely pedagogic

indicator of lecturer commitment to increase student motivation in the statement gives rewards to students who succeeded in the academic field.

competence, personal competence, professional competence and social competence. The four competencies are explained into 18 statement items. Table 7 explains that



the grand mean of the Lecturer Competency variable is 4.03, included in the high category. This means that students perceive the competence of lecturers as high. The lowest

value lies in the indicator of personal competence, namely the lecturer cannot yet be a role model for students in thinking attitude and behavior.

Table 7. Results of Descriptive Analysis of Lecturer Competency (X2)

Item No		Respondents' Answers										
		5		4		3		2		1	1	
	F	%	F	%	F	%	F	%	F	%	1	
X2.1a	262	43,7	312	52,0	26	4,3	0	0	0	0	4,39	
X2.1b	182	30,3	366	61,0	52	8,7	0	0	0	0	4,22	
X2.1c	156	26,0	375	62,5	66	11,0	3	0,5	0	0	4,14	
X2.1d	286	47,7	288	48,0	24	4,0	2	0,3	0	0	4,43	
X2.1e	100	16,7	258	43,0	197	32,8	41	6,8	4	0,7	3,68	
X2.2a	178	29,7	356	59,3	66	11,0	0	0	0	0	4,19	
X2.2b	9	1,5	21	3,5	237	39,5	333	55,5	0	0	2,51	
X2.2c	199	33,2	362	60,3	39	6,5	0	0	0	0	4,27	
X2.2d	193	32,2	332	55,3	71	11,8	2	0,3	2	0,3	4,19	
X2.3a	5	0,8	25	4,2	251	41,8	318	53,0	1	0,2	2,52	
X2.3b	267	44,5	321	53,5	10	1,7	2	0,3	0	0	4,42	
X2.3c	192	32,0	332	55,3	72	12,0	2	0,3	2	0,3	4,18	
X2.3d	162	27,0	365	60,8	70	11,7	2	0,3	1	0,2	4,14	
X2.3e	182	30,3	366	61,0	52	8,7	0	0	0	0	4,22	
X2.4a	262	43,7	300	50,0	38	6,3	0	0	0	0	4,37	
X2.4b	286	47,7	288	48,0	24	4,0	2	0,3	0	0	4,43	
X2.4c	148	24,7	376	62,7	72	12,0	4	0,7	0	0	4,11	
X2.4d	175	29,2	362	60,3	61	10,2	2	0,3	0	0	4,18	
	_			Gra	and Me	an					4,03	

#### 4. Perceived Teaching Quality (Z)

Perceived Teaching Quality is measured by 3 indicators, namely: learning planning, learning implementation and learning assessment. Here are the results of student answers:

Table 8. Results of Descriptive Analysis of Perceived Teaching Quality (Z)

Item No	Respondents' Answers										Mean
		5		4		3		2		1	1
	F	%	F	%	F	%	F	%	F	%	1
Z.1a	262	43,7	312	52,0	26	4,3	0	0	0	0	4,39
Z.1b	262	43,7	300	50,0	38	6,3	0	0	0	0	4,37
Z.1c	175	29,2	336	56,0	85	14,2	4	0,7	0	0	4,14
Z.1d	286	47,7	288	48,0	24	4,0	2	0,3	0	0	4,43
Z.2a	306	51,0	284	47,3	8	1,3	2	0,3	0	0	4,49
Z.2b	279	46,5	286	47,7	35	5,8	0	0	0	0	4,41
Z.2c	276	46,0	298	49,7	26	4,3	0	0	0	0	4,42
Z.2d	314	52,3	262	43,7	24	4,0	0	0	0	0	4,48
Z.3a	262	43,7	300	50,0	38	6,3	0	0	0	0	4,37
Z.3b	306	51,0	269	44,8	24	4,0	1	0,2	0	0	4,47
		<u> </u>		Gran	d Mear	n			<u> </u>		4,39



Grand Mean of Perceived Teaching Quality variable of 4.39 is categorized high. This mean that students perceive that the quality of learning is good. Nevertheless, there are still values below the average namely the ability of lecturers in designing instructional media.

Student Satisfaction Variables (Y) Student satisfaction is measured by 4 indicators, namely: direct evidence, guarantees, responsiveness, and reliability. The four indicators are explained into 16 statement items. The following are the results of student answers.

Table 9. Results of Descriptive Analysis of Student Satisfaction (Y)

Item	Respondents' Answers								Mean		
No	5		-	4		3	2		1		1
	F	%	F	%	F	%	F	%	F	%	
Y.1a	3	0,5	11	1,8	267	44,5	316	52,7	3	0,5	2,49
Y. 1b	148	24,7	372	62,0	74	12,3	6	1,0	0	0	4,10
Y.1c	1	0,2	32	5,3	297	49,5	268	44,7	2	0,3	2,60
Y.1d	8	1,3	21	3,5	245	40,8	326	54,3	0	0	2,52
Y.2a	286	47,7	288	48,0	24	4,0	2	0,3	0	0	4,43
Y.2b	1	0,2	4	0,7	270	45,0	325	54,2	0	0	2,47
Y.2c	158	26,3	346	57,7	92	15,3	4	0,7	0	0	4,10
Y.2d	286	47,7	288	48,0	24	4,0	2	0,3	0	0	4,43
Y.3a	132	22,0	384	64,0	74	12,3	10	1,7	0	0	4,06
Y.3b	5	0,8	20	3,3	246	41,0	326	54,3	3	0,5	2,50
Y.3c	0	0	0	0	231	38,5	368	61,3	1	0,2	2,38
Y.3d	182	30,3	366	61,0	52	8,7	0	0	0	0	4,22
Y.4a	307	51,2	217	45,2	21	3,5	1	0,2	0	0	4,47
Y.4b	1	0,2	3	0,5	268	44,7	328	54,7	0	0	2,46
Y.4c	181	30,2	350	58,3	64	10,7	5	0,8	0	0	4,18
Y.4d	134	22,3	406	67,7	56	9,3	2	0,3	2	0,3	4,11
Grand Mean								3,47			

The grand mean value for the student satisfaction variable is 3.47 including the high or satisfied category. Although students are satisfied with direct/ physical evidence, guarantees, responsiveness, and reliability, students still assess students' aspirations have not been heard and followed up by university leaders and staff to the fullest.

#### 6. Path Analysis Results

1. The Direct Effect of Lecturer Commitment to Student Academic Achievement (X1) and Lecturer Competency (X2) on Perceived Teaching Quality (Z) Based on the regression test that has been done, the recapitulation of the path coeffic 11t results of the influence of the variables X1 and X2 to Z can be seen in table 1.1 as follows:

Table 10. Regression Results of Structure Equation 1 from variables X1, X2, and Z

Model	R	R Square	Adjusted R Square	Std. Error of the estimate
1	.623ª	.388	.386	.344

a. Predictors: (Constant), Lecturer Competency, Lecturer Commitment to Student Academic Achievement Coefficients<sup>a</sup>

Model	Unstandardized Coeff	ïcients	Standardized Coefficients	t	Sig.
	В	Std. Error	Beta		
1 (Constant)	.984	.178		5.524	.000
Lecturer Commitment to Student Academic Achievement	.572	.052	.434	11.072	.000
Lecturer (1) petency	.323	.048	.261	6.664	.000

a. Dependent Variable: Teaching Quality

Based on the analysis results in the above table, the regression equation can be formulated as follows:

Structure Equation 1:

#### Z = 0.434X1 + 0.261X2 + 0.782

Based on Table 10, the results show that the Lecturer Commitment to Academic Achievement has a positive and significant direct effect on Perceived Teaching



Quality of 0.434; with sig t 0.000 < 0.05; (Hypothesis 1 is accepted). This means that if the Perceived Teaching Quality rises 1%, the lecturer commitment to academic achievement will increase by 43.4%. The results of this study support the results of research by Elliott, K.M., & Shin, D. (2010); Xiao, J. and Wilkins, S. (2015); Paechter, M., Maier, B., & Macher, D. (2010); Rienties, B., Heliot, YF, & Jindal-Snape, D. (2013; Sojkin, B., Bartkowiak, P., & Skuza, A. (2012); Tyler, TJ, Hilton III, J., Plummer, K., & Barrett, D. (2014).

b. Based on Table 10, the results show that Lecturer Competency has a direct positive and significant effect on Perceived Teaching Quality (Z) of 0.261, with sig t 0.00 < 0.05 (Hypothesis 2 is accepted). This means that if perceived teaching quality rises by 1%, Lecturer Competency will increase by 26.1%. The results of this study support the results of Tomo Judin's research. [1] 18), he researched students in Pontianak Indonesia. The results

of his study concluded that the commitment of lecturers to academic achievement of students affect student satisfaction. This research strengthens the research of Xiao, Jian. (2015) examinate at one Chinese University, with a sample consisted of 24 lecturers and 456 students in China. The purpose of the \$2 ly was to examine the effect of lecturer commitment on student perception 10 teaching quality and student satisfaction. One of the results of his research concluded that the lect 11st commitment to student academic achievement had a positive and significant effect on student satisfaction.

2. The Direct Effect of Lecturer Commitment to Student Academic Achievement (X1) and Lecturer Opposition (Y2) on Student Satisfaction (Y3) Through Perceived Teaching Quality (Z)

Based on the regression test that has been done, the coefficient results of the variables X1, X2, and Z on Y can be seen in table 11 as follows:

Table 11. Regression Results of Structure Equation 2 from variables X1, X2, Z, and Y

		WIOUCI	Summary	
Model	odel R		Adjusted R Square	Std. Error of the estimate
1	.694ª	.481	.478	.175

a. Predictors: (Constant), Teaching Quality, Lecturer Competency, Lecturer Commitment to Student Academic Achievement Coefficients\*

Dependent Variable: Student Satisfaction

b. Coefficients\*

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	В	Std. Error	Beta		
1 (Constant)	1.420	.093		15.275	.000
Lecturer Commitment to					
Student Academic	.087	.029	.119	3.010	.003
Achievement				1	
Lecturer Competency	.143	.026	.209	5.592	.000
Teaching Quality	.263	.021	.475	12.604	.000

c. a. Dependent Variable: Student Satisfaction

#### Structure Equation 2:

A 20.119X1 + 0.209X2 + 0.475 Z + 0.720
a. The Effect of Lecturer Commitment to student academic achievement on Student satisfaction
Based on Table 11, the results are obtained that the Letturer Commitment to student academic achievement has a significant positive effect on Student satisfaction of 0.119 and sig t = 0.003 < 0.005. Thus Hypothesis 3 is accepted. The results of this study support the results of ones conducted by Douglas, J.A., McClelland, Robert James. Douglas, A. (2015) concluded in his study that lecturer' commitment to student academic achievement has an effect on student satisfaction. The results of this study reinforce the research of Michael D. Clemes (2001). He conducted a

cross-sectional study of 350 undergraduate students at two business schools of north western universities in England. He examined what factors caused students to be satisfied or dissatisfied with the services provided by universities in the UK. Satisfaction / dissatisfaction in the field of teaching and learning and learning environment factors, and support services. The quality of learning, campus facilities and the enviror 1 ent, and the educational process have a significant impact on student perceptions of service quality. Factors 1 student perceptions of higher education services have an effect on student satisfaction and loyalty to the institution.

The Effect of Lecturer Competency on Student Satisfaction



Based on Table 11, the results show that Lecturer Competency has a significant positive effect on Student Satisfaction of 0.209 and sit = 0.000 < 0.005, thus Hypothesis 4 is accepted. The results of this research support the results of the one by Ng Chiaw Gee. (2018), he did a resea 11 to find out the effect of lecturer competence on student satisfaction. Using quantitative approaches and correlation analysis tools, and multiple regression. He collected 327 data from a total population of 2,226. Of the 327 data, 80 data were collected from the Degree program, 214 data were collected from the Diploma program, 10 data were collected from the Certificate program, 23 data were collected from the Foundation program. He examined 10 indicators to measure lecturer competence: Knowledge. Course Objective, Lecture Note, Clarity of Presentation, Attendance, Class Activity, Assignment, Examination, Interpersonal Skills, and feedback are related to student satisfaction. His research findings conclude that lecturer competency has a positive and significant effect on student satisfaction. Akinleke W. Olaitan (2018) studied the last sixty students of the National Diploma (ND II) of the Federal Polytechnic, Ilaro, Ogun State, Nigeria. The results of his study concluded that lecturer competence affects student performance. The results of this research also strengthen the research results of Choi Sang Long, Zaiton Prahim & Tan Owee Komang (2014) conducted a study of 260 students in private universities in Malaysia. They research about the competence of lecturers associated with student satisfaction. There are 14 lecturer competencies studied, including: competency, knowledge of subject, clarity of presentation, interaction with students, learning creativity, clarifying learning outcomes, class activity, lecture notes that affect student satisfaction. Of the 14 lecturer competencies, 1 competency which contributes the most significant effect on student satisfaction is lecturer knowledge of subject. Subsequent researchers Xiao, J. and Wilkins, S. (2015), conducted a study of 24 lecturers and 456 students at one university in China. The research findings concluded that the commitment of lecturers to perceived 1 caching quality affects student satisfaction. Lecturer commitment to all aspects of student social influence student satisfaction. Lecturer commitment has an effect on perce 2ed teaching quality.

The Effect of Perceived Teaching Quality on Student Satisfaction Based on Table 11, the results show that Perceived Teaching Quality has a significant positive effect on Student Satisfaction of 0.475 and sig t = 0.000 < 0.005. Thus hypothesis 5 is accepted. The sults of this study support the results of the research of Butt, B.Z., & Rehman, K. (2010) who examined the factors that shape student satisfaction in tertiary institutions which ultimately are student loyalty to the institution. The results of his research concluded that the factors forming student satisfaction are the image of the institution, student expectations, the quality perceived by students, including the quality of learning perceived by students and other factors are the values 11ceived by students. Temizer, L. and Turkyilmazb, A. (2012) conducted a research to measure student satisfaction from various aspects, such as university image, expectations, perceived quality, perceived value, and loyalty. The results of his research concluded that the factor was tested as a factor forming student satisfaction. The results of this study are in line with the results of research by Akareer H.S. & Hossain Sy. Sh (2016) they examined university students in Bangladesh. The findings show students' perceptions about the quality of education, of course, including the quality of learning in higher education have an impact on student satisfaction in college in Banglade 2.

Indirect Effects of Lecturer Commitment to Student Academic Achievement (X1) on Student tisfaction (Y) through Perceived Teaching Quality (Z) Based on these calculations it can be explained that the indirect effect of the Lecturer Commitment to Student Academic Achievement (X1) on Student Satisfaction (Y) through Teaching Quality (Z) is 20.6%. In addition, the results of the sub-structural calculation of Lecturer Commitment to Student Academic Achievement (X1) have an effect on Teaching Quality (Z) with a beta value of 0.434 and a significant level of 0,000 < 0.05 then Teaching Quality (Z) also has an effect on Student Satisfaction (Z) Y) with a beta value of 0.475 and a significance level of 0.000 < 0.05. Thus the variable X1 has an indirect effect on the variable Y and variable X1 also has an indirect effect on the variable Y through Z so it can be concluded that the variable Z functions as an intervening variable in relation to the effect of the variable X1 on the Y variable. The results of the car test show the value of t X1 count is 4.972269268 (tcount > ttable) which is 1.965. This means that the quality of learning perceived by students plays a role as a good moderating variable. Thus Hypothesis 6 is accepted. The results of this study support the results of the research of Xiao, Jian. (2015), researching at a university in China. One of the results of his research concluded that the Lecturer Commitment to Academic Achievement had a positive and significant effect on udent Satisfaction through Perceived Teaching Quality. Wilkins, S., Balakrishnan, M.S. and Huisman, J. (2012); Ahmed Al-Kuwaiti, Thennarasu Maruthamuthu (2014); Sookdeo, Suzette S., (2016), the results of her research concluded that students' perceptions of quality (including quality of learning) affect student satisfaction.

4. The Indirect Effect of Lecturer Competency (X2) on Student Satisfaction (Y) through Perceived Teaching Quality (Z)

The indirect effect of variable X2 on variable Y through variable Z can be calculated using the following formula:

PTL = (pzx x pyz)

Information : PTL = 1 direct Effect

pzx = Effect of Lecturer Competency (X2) on Teaching Quality (Z) pyz = Effect of Teaching Quality (Z) on Student Satisfaction (Y)

So that:

 $PTL = 0.261 \times 0.475 = 0.123$ 

Based on these calculations it can be explained that the indirect effect of Lecturer Competency (X2) on Student Satisfaction (Y) through Teaching Quality (Z) is 12.3%. In addition, the result of the sub-structural calculation variable



of Lecturer Competency (X2) has an effect on Teaching Quality (Z) with a beta value of 0.261 and a significant level of 0.000 < 0.05 then Teaching Quality (Z) also has an effect on Student Satisfaction (Y) with a value of beta 0.475 and the level of significance is 0,000 < 0.05. The Sobel test results showed the value of tcount X2 was 4.972269268 (tcount > t table), that is 1.965. This means that the quality of learning perceived by students plays a role as a good moderating variable. Thus Hypothesis 7 is accepted. The results of this study are in line with the results of research Akareem H & Hossain, Sy.Sh. (2016) they examined university students in Bangladesh. The findings show students' perceptions about the quality of education, of course including the quality of learning in higher education have an impact on student satisfaction in college in Bangladesh. Butt, B.Z., & Rehman, K. (2010) examined the factors that shape student satisfaction in tertiary institutions which ultimately are student loyalty to the institution. The results of his research concluded that the factors forming student satisfaction are the image of the institution, student expectations, the quality perceived by students, including the quality of learning perceived by students and other factors are the values perceived by students. Leyla Temizer, Ali Turkyilmazb (2012) conducted a study to measure student satisfaction from various aspects, such as university image, expectations, perceived quality, perceived value, and loyalty. The results of his study concluded that the factor was tested as a factor forming student satisfaction.

Douglas J., McClelland, R., & Davies, J. (2008) conducted 1 study of 163 undergraduate students at Liverpool John Moores University in England. The results of the study concluded that students' percep 1 ns of the quality of learning (one of them) affected student satisfaction and ended in student loyalty. Judin, T. (2018); Ganyaupfu, E.M. (2013); Ahmed Al-Kuwaiti, Thennarasu Maruthamuthu. 2014; Jiewanto, A, Laurens, C & Nelloh, L (2012); Hakim, A. (2015); Leyla Temizer, Ali Turkyilmazb (2012); Tessema, TM, Ready, K & Yu, W (2012); Wilkins, S., Balakrishnan, M.S. and Huisman, J. (2012); Suarman, Zahara Aziz2 & Ruhizan Molammad Yasin 2013, the results of the study concluded that the quality of learning (including learning methods and learning programs) affects student satisfaction.

Total Influence

The effect of the total variable X on Y through Z can be culated using the following

Based on the calculations it can be explained that the effect of total Lecturer Commitment to Student Academic Achievement (X1) and Lecturer Competency (X2) on Student Satisfaction (Y) through Teaching Quality (Z) is 65.7%.

Based on the explanation of the interpretation of the results of the path analysis test (which is already explained in detailed in previous sections), the summary of the direct and indirect relationships between variables is shown in the table below:

Variable Relationship	Direct Effect	Indirect Effect	Total Effect	Significant Effect	Information
X1 —▶ Z	0,434	-	-	<mark>0</mark> ,000	H1accepted
Z—▶ Y	0.475	-	-	0,000	H2 accepted
X1—▶ Y	0,119	-	-	0,000	H3 accepted
X1 —▶ Z —▶ Y	0,434; 0,475	0,21	0,64	4,97	H4 accepted

X2—▶ Z	0,261	-	0,261	0,000	H5 accepted
Z —▶ Y	0,475	-	0,475	0,000	H6 accepted
X2—▶ <u>Y</u>	0,119	-	0,119	0,000	H7 accepted
X2 —▶ Z —▶ Y	0,261; 0,475	0,123	0,657	4,97	H8 accepted

## 4. CONCLUSION

This research raised veral research questions. Firstly, how were the condition of lecturer's commitment to academic condition, lecturer competency, perceived teaching quality, and student satisfaction in Malang, Indonesia? Secondly, how did the direct effect of those variables on student satisfaction and indirect effect of those variables through variable of perceived teaching quality on student satisfaction?

The research result showed that the lecturer commitment to academic achievement is categorized as high; lecturer competency is categorized high. Students perceive learning quality (perceived teaching quality) is high (good) and Student satisfaction is categorized high of satisfied. Lecturer commitment to academic achievement has a direct or indirect grificant positive effect on student satisfaction through perceived teaching quality. Lastly, lecturer competency has a direct or indirect significant positive effect on student satisfaction through perceived teaching quality.



#### 5. SUGGESTION

Based on research findings that the lecturer commitment to academic achiever it and lecturer competency have a direct or indirect significant positive effect on student satisfaction through perceived teaching quality, then the rector/ staff (policy-maker) in colleges/ universities is expected to pay more attention to lecturer commitments, lecturer competencies, and quality of learning, by: 1) providing opportunities and support (material and non-

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- material) for lecturers to attend workshops and training (particularly concerning strategy, approach, method, and models of learning), national and international seminars, English language learning, etc. in order to improve lecturer's commitment and competency, particularly the teaching quality of lecturer. 2) More supportive (non-material) lecturers to enhance research activities at the faculty, university, national and even international level; 3) More support and facilitate (non-material for lecturers to carry out community service activities).
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