# The Influence of Self-Confidence and Curiosity on Student Performance in Online Learning

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#### Abstrak

Rasa ingin tahu dan rasa percaya diri merupakan faktor internal peserta didik yang berperan dalam memengaruhi proses serta hasil belajar. Penelitian ini bertujuan untuk menggambarkan pengaruh rasa percaya diri dan rasa ingin tahu terhadap hasil belajar matematika dalam pembelajaran daring, baik secara teoritis maupun empiris. Metode penelitian yang digunakan ini adalah survei dengan pendekatan korelasional. Subjek penelitian terdiri dari 71 mahasiswa program studi pendidikan matematika. Data yang diperoleh dianalisis menggunakan metode deskriptif dan inferensial. Analisis inferensial mencakup uji korelasi sederhana Pearson's Product Moment dan korelasi ganda dengan dua prediktor, setelah memenuhi syarat normalitas dan linearitas. Hasil penelitian menunjukkan bahwa hasil belajar matematika mahasiswa belum memuaskan, dengan lebih dari 50,70% mahasiswa memperoleh nilai di bawah 61. Selain itu, diketahui juga bahwa rasa ingin tahu ( $X_1$ ) memiliki pengaruh signifikan terhadap hasil belajar (Y), Rasa percaya diri ( $X_2$ ) juga berpengaruh terhadap hasil belajar (Y). **Kata Kunci**: Hasil Belajar; Pengaruh; Rasa Ingin Tahu; Rasa Percaya Diri.

#### Abstract

Curiosity and self-confidence are internal factors of students that play a role in influencing the learning process and outcomes. This research aims to describe the influence of selfconfidence and curiosity on mathematics learning outcomes in online learning, both theoretically and empirically. The research method used is a survey with a correlational approach. The research subjects consisted of 71 students from the mathematics education study program. The data obtained were analyzed using descriptive and inferential methods. Inferential analysis includes a simple Pearson's Product Moment correlation test and multiple correlation with two predictors, after fulfilling the normality and linearity requirements. The research results show that students' mathematics learning outcomes are not satisfactory, with more than 50.70% of students getting a score below 61. In addition, it is also known that curiosity ( $X_1$ ) has a significant influence on learning outcomes (Y), self-confidence ( $X_2$ ) also influences learning outcomes (Y), and there is a significant relationship between curiosity ( $X_1$ ) and self-confidence ( $X_2$ ) on learning outcomes (Y).

Keywords: Learning Outcomes; Influence; Curiosity; Self-confidence.

# I. INTRODUCTION

Education is one of the essential needs of human life. Elban (2017) state that educational activities are an effort made by the community to maintain the survival of their culture and civilization. Education also plays an essential role in determining the quality of human resources. In today's modern era, everyone needs the education to be able to increase knowledge and explore the potential that exists within him (Furgan et al., 2020; Talia, Afriansyah, & Sumartini, 2024). However, the current situation is vastly different from the As previous one. а result. the implementation of educational activities has undergone a sudden shift, transitioning from offline learning to online learning (Demuyakor, 2020). This happened due to the emergence of the Covid-19 virus outbreak, which resulted in the restriction of all offline activities (Iqbal & Sohail, 2021).

Current technological developments influence how learning takes place in the world of education (Igbal & Sohail, 2021; Ranila, Yunianta, & Prihatnani, 2023). the government has also begun to change the education system to better follow current technological developments. (Mirza, 2020). where, learning is now online-based. Although it is not the same as Classroombased offline learning has transitioned to online learning as a solution to adapt to the advancements in the current education system (Mirza, 2020). Online learning is carried out to expand educational services' reach and increase educational services' availability so that academic activities can continue to run as they should (Kurniawati & Noviani, 2021; Alshurideh et al., 2021).

The implementation of online learning can be done with media such as zoom, Edmodo google class, Whatsapp, google meet, and so on (Nur & Gushendra, 2022; Purba, 2021; Fitria, 2020; Dewi & Afriansyah, 2022). This certainly should not be a reason not to study seriously and even reduce learning motivation for students, especially college students. Although its implementation has shortcomings, there is no other choice but to optimize online learning. Technology will be a bridge in transferring knowledge from lecturers to students in an emergency like this. Of course, this problem can have an impact on student learning outcomes (Ariawan, 2022; Khalil et al., 2020; Nguyen, 2017).

Facts on the ground show that it is not uncommon for lecturers to experience various obstacles in online learning especially in mathematics practices, content courses (Nur & Gushendra, 2022). Often students judge that mathematics content subjects are complex. As a result, students do not have the desire to try to understand the mathematical material being taught. Not to mention the students' lack of confidence in their abilities, adding to the obstacles to developing their potential in mathematics. This indicates that the curiosity and confidence of a student is an internal factors that can affect learning process and learning the outcomes (Santi & Widyasari, 2021).

External factors include teaching staff, learning facilities and infrastructure, assessment policies, social environment, and curriculum. Internal factors encompass attitudes toward learning, motivation, concentration, retention of learning outcomes, application of knowledge, self-

confidence, intelligence, study habits, and personal goals (Febrina & Ilyas, 2020; Ismail et al., 2018). According to Dimyati and Mudjiono in (Mawaddah et al., 2020). Pandemic period affects student learning outcomes from external factors, namely changes in social and environmental conditions and curricula that must adapt to pandemic conditions and the lack of adequate learning facilities and infrastructure for online learning. while from internal factors, almost all aspects experienced a significant change from the situation. Curiosity and Self Confidence are internal factors that affect learning outcomes in learning (Bäck et al., 2017; Amalia, Wanabuliandari, & Rahayu, 2022).

Curiosity serves as the foundational asset for students in the learning process (Edu et al., 2021). Curiosity motivates students to seek answers and satisfy their inquisitiveness, often driving them to actively engage in the process of exploration and discovery (Koch & Locher, 2021; Afriansyah, 2021). In the process of seeking knowledge, students can take approaches, such as various asking questions directly to lecturers, engaging in discussions with peers, and exploring learning materials from diverse sources, including books, journals, and online platforms. Student curiosity can bring a better impact if the student has high selfconfidence (Labrague et al., 2019). Not infrequently, students have high curiosity, but they are afraid to convey it; not seldom do they have arguments but are not presented because of shame and fear of being wrong, and not a few students are not sure what they have tried. States that the main form of self-confidence in mathematics learning is the interaction of students both with teachers and fellow students (Ranjit Singh Malhi, 2012).

Several researchers have studied selfconfidence and curiosity, but the researchers conducted it in biology subjects, the results of which showed a positive relationship between the two and influenced also student motivation (Suryanda et al., 2022). Likewise, research conducted by Setiawan found an influence of self-confidence and curiosity on student perseverance (Setiawan et al., 2022). If we look back at the research on the relationship between self-confidence and curiosity in online learning, especially in mathematics learning in higher education, it is still minimal, so researchers will conduct this research theoretically and empirically.

# II. METHOD

This quantitative correlational research (Ellis-Jacobs, 2011), attempts to investigate the relationship between self-confidence and curiosity towards learning outcomes in online learning, both individually and together (Rohmani & Andriani, 2021). In analyzing the relationship between variables, two types are taken into account: independent variables (X) and the dependent variable (Y). This study identifies two independent variables as exogenous factors, namely curiosity (X1) and selfconfidence  $(X_2)$ , while the dependent or endogenous variable is learning outcomes (Y).

The implementation of this research activity uses a survey method with an

associative approach. With this associative approach, the data analysis was carried out using correlational analysis. The design of the relationship between variables as the basis or paradigm adopted in this study can be described as follows.



Figure 1. Schematic of Relationship Between Variables.

The population of this study is accessible, consisting of all students enrolled in the Mathematics Study Program at FKIP Untan Pontianak. The research sample selected purposively, was specifically targeting all fifth-semester students, excluding those who were repeating the semester. Therefore, the subjects of this study comprised all fifthsemester students in the Mathematics Education Study Program at FKIP Untan Pontianak. The number of students who became subjects or respondents in the study was 71.

Meanwhile, the instrument trial was carried out on students in other semesters randomly selected. In the implementation of this instrument trial, 44 students were willing to respond and, at the same time, return the questionnaire given.

Techniques in this study were carried out in two ways: measurement and test techniques. The measurement technique was used to obtain data on student curiosity and self-confidence. Meanwhile, a test was administered to collect data on students' learning outcomes. Data on curiosity and self-confidence were gathered using a questionnaire as the data collection instrument. The questionnaire, designed to measure students' curiosity and self-confidence, utilized a checklist and a Likert scale (Jusuf, 2018; Sugiyono, 2018).

statement of the Each curiosity exogenous variable is equipped with five answer options with weights, and measurement scales for positive comments are: (1) Never, (2) Rarely, (3) Sometimes, (4) Often, and (5) Always. For the self-confidence exogenous variable statement, it is equipped with four answer options with weights, and measurement scales for positive comments are: Disagree, Doubtful, Agree, and Strongly agree. As for negative statements, the opposite weight is five (5) to one (1) for the curiosity variable and four (4) to one (1) weight for the selfconfidence variable.

Before being used for data collection, the exogenous variable instrument was tested first. The statement items from the instrument were obtained which were valid and had a fairly high-reliability coefficient, which was more than 0.70. The reliability coefficient for the curiosity instrument was 0.893 and the self-confidence instrument was 0.947. The validity of the instrument items was determined using Pearson's Product-Moment correlation, while the reliability of the instrument was tested using the Cronbach's Alpha formula. Both the validity and reliability calculations were performed using the Excel software.

The data collected in this study were analyzed using both descriptive and inferential methods. Descriptive analysis was employed to calculate the mean, range, standard deviation, frequency distribution, and percentages (Charry et al., 2020; Loeb et al., 2017). In contrast, inferential analysis is used to test the statistical hypothesis of the research problem (Li et al., 2021). The statistical test used is simple correlation analysis and multiple correlation analysis with two predictors after meeting the linearity requirements.

In this study, the number of samples is 71, so standard assumptions can be used for hypothesis testing. This is based on the expert opinion that the central limit theory (Ding et al., 2016) can be the basis for accepting the standard distribution assumption for a large enough sample size, namely n = 30 or more.

For inferential data analysis, three research hypotheses were tested: (1) curiosity has a significant impact on student learning outcomes in online learning, (2) self-confidence significantly affects student learning outcomes in online learning, and (3) there is a significant relationship between the exogenous variables of curiosity and self-confidence and student learning outcomes in online learning.

Hypothesis (1) and (2) were tested using a simple Pearson's Product Moment correlation test, while hypothesis (3) was tested using a multiple correlation test with two predictors with a significance level of = 0.05. The statistical hypothesis of the problem studied in this research is as follows.

$$H_0: \rho = 0$$
$$H_a: \rho \neq 0$$

As a guideline for providing an interpretation of the correlation coefficient obtained, it is based on the criteria for the

degree of correlation coefficient according to Pearson's Correlation value.

# III. RESULT AND DISCUSSION

# A. Result

## 1. Description of Learning Outcomes Data

Data on learning outcomes in this study is the average score of student learning outcomes for mathematics education courses for mathematics content courses in semester V with a scale of 0-100. This data is taken from the results of the midsemester exams for Multivariable Calculus and Discrete Mathematics courses, whose lectures are online, in the 2021/2022 academic year. Descriptive statistical calculations were carried out using the Excel program to provide an overview of the distribution of data or the distribution of learning outcomes data. From the calculation results, the average score is 61.73, the median is 60, the maximum score is 85, the minimum score is 40, the range is 45, and the standard deviation is 11.472. The learning outcomes data can be presented as a frequency distribution table based on the Sturges rule, with n = 71, so the number of classes is  $1 + 3.3 \log (71) =$ 7.11 rounded 7. The class interval is the range divided by many courses, namely 45/7 = 6.43, which is rounded up to 7.

Table 1.
Distribution of Student Frequency based on
Learning Outcome

	Leanning	outcome	
No	Interval	Frequency	%
1	40-46	7	9.86
2	47-53	12	16.90
3	54-60	17	23.94
4	61-67	15	21.13
5	68-74	10	14.08
6	75-81	6	8.45
7	82-88	4	5.63
To	tal	71	100.00

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Distribution of learning outcomes data can be seen quickly and clearly, then based on the data distribution in Table 1, it needs to be presented in the form of a bar chart as follows.



Figure 2. Data Distribution Diagram of Student Learning Outcomes.

#### 2. Description of Curiosity Data

From the criteria set and the number of questionnaires given by the respondents, 71 students could be used as samples in this study. The questionnaire to capture curiosity consists of 18 items with nine favorable and unfavorable statements. Each statement is given five answer options. The answers from each student to each account in this questionnaire were then transformed into quantitative data in the form of scores according to the state of the statement.

The average total score of Curiosity questionnaire is 70.69. The maximum score is 90, the minimum score is 48, the range is 42, and the standard deviation is 9.99. Referring to the Sturges rule, this data can be presented as a frequency distribution in Table 2 and a bar chart in Figure 3.

	Tak	ole 2.	
Frequen	cy Distributio	on of Student (	Curiosity
No	Interval	Frequency	%
1	48-53	4	5.63
2	53-59	6	8.45
3	60-66	10	14.08
4	67-72	23	32.39
5	73-78	14	19.72
6	79-84	9	12.68
7	85-90	5	7.04



Figure 3. Curiosity Data Distribution Chart.

Based on the curiosity questionnaire data presented in Table 3, it is known that the average questionnaire score is 70.69, with a standard deviation of 9.999. Observing the data distribution in table 3, it appears that 32.39% of students' curiosity is in the average class interval (67-72, if the average curiosity questionnaire score is added to the standard deviation, a score of 80.689 is obtained. A questionnaire score that reaches more than 80,689 can be categorized as high. In contrast, a questionnaire score less than the average value minus the standard deviation of 60.691 can be classified as low and in the medium category if the questionnaire score ranges from 60.691 to 80,689.

Based on these criteria, students' curiosity is included in the low category at around 14.08%, and the high standard is at least 19.72%. The rest, about 66.19% (more than half of the respondents), fall into the medium category. From the results of this analysis, it can be concluded that the curiosity of students whose lectures are carried out online can be said to be still unsatisfactory. Only a tiny proportion (19.72%) have sufficient interest (high category).

The effect of curiosity (X<sub>1</sub>) on learning outcomes (Y) in this study was examined by testing the hypothesis using Pearson's Product Moment simple correlation analysis. This correlation test is applied by considering the data's normality and linearity requirements. In this study, both conditions have been met. The data normality test was conducted using a nonparametric analysis with the one-sample Kolmogorov-Smirnov test, with the calculation results criteria obtained Asym sig (2-tailed) > 0.05. As for the linearity with the F test. The results of the correlation test are as follows.

		Rasa Ingin Tahu	Hasil Studi
Rasa Ingin Tahu	Pearson Correlation	1	.841
	Sig. (2-tailed)		.000
	N	71	71
Hasil Studi	Pearson Correlation	.841	1
	Sig. (2-tailed)	.000	
	N	71	71

Figure 4. Calculation results of Correlation between variable  $X_{\rm 1}$  and Y.

### 3. Description of Self-Confidence Data

The data on the student self-confidence research variable in this study was obtained from the results of a self-confidence distributed questionnaire that was simultaneously with a self-confidence questionnaire, namely to all students of the mathematics education study program in the fifth semester and programmed courses Multivariable Calculus and Discrete Mathematics. The questionnaire to capture self-confidence consists of 36 items with statements in the form of favorable and unfavorable, each with 18 items. Each account is given four answer options. The answers from each student to each word in this questionnaire were then transformed into quantitative data in the form of scores according to the state of the statement.

The results of student answers to the self-confidence questionnaire can be seen

in appendix 8. Based on these data, the average total score is 109.13. The maximum score is 137, the minimum score is 79, the range is 58, and the standard deviation is 15.075. Referring to the Sturges rule, this data can be presented as a frequency distribution Table 3 and a bar chart Figure 5.

Table 3.
Frequency Distribution of Student Self-Confidence

No	Interval	Frequency	%
1	79-87	5	7.04
2	88-96	8	11.27
3	97-105	16	22.54
4	106-114	18	25.35
5	115-123	11	15.49
6	124-132	12	16.90
7	133-142	1	1.41
To	tal	71	100.00



Figure 5. Self Confidence Data Distribution Chart.

Based on the self-confidence questionnaire data presented in table 3, it is known that the average score of the questionnaire is 109.13 with a standard deviation of 15.075. The data distribution in table 4.3 shows that 25.35% of students' self-confidence is in the class average interval (106-114), if the average curiosity questionnaire score is added to the standard deviation, then a score of 124.205 is obtained. Obtaining a questionnaire score that reaches more than 124.205 can be categorized as high. In contrast, a questionnaire score that is less than the average value minus the standard deviation of 94.055 can be classified as low and included in the medium category if the questionnaire score is in the range from 94.055 to 124.205.

Based on these criteria, the students' self-confidence is in the low category, around 18.31%, and the high standards are 18.31%. The rest, about 63.38% (more than half of the respondents), fall into the moderate category. From the results of this analysis, it can be concluded that the self-confidence of students whose lectures are carried out online can be said to be still not satisfactory. Only a small percentage (18.31%) have sufficient self-confidence (high category).

The results of calculations to test the effect of self-confidence (X<sub>2</sub>) on learning outcomes (Y) in this study were examined by testing hypotheses using Pearson's Product Moment simple correlation analysis. This correlation test is applied by considering the data's normality and linearity requirements. The result showed that there is a significant influence (relationship) between self-confidence (X<sub>2</sub>) and learning outcomes (Y). The results can be seen in Figure 6.

Correlations			
		Self Confident	Hasil Studi
Self Confident	Pearson Correlation	1	.830**
	Sig. (2-tailed)		.000
	N	71	71
Hasil Studi	Pearson Correlation	.830**	1
	Sig. (2-tailed)	.000	
	N	71	71

Figure 6. Calculation Results of Correlation between variable  $X_{\rm 2}$  and Y.

# 4. The Influence of Curiosity and Self-Confidence on Learning Outcome

To find out how the relationship between curiosity  $(X_1)$  and self-confidence  $(X_2)$  on learning outcomes simultaneously (simultaneously), it was carried out using a multiple correlation test. There is a significant relationship between curiosity  $(X_1)$  and self-confidence  $(X_2)$  together on learning outcomes (Y). table 3. Referring to the guideline for the degree of the correlation coefficient, the level of the relationship between curiosity and selfconfidence together (simultaneously) on student learning outcomes in online learning is included in the solid category (range 0.800 - 1,000). This means that the acquisition of student learning outcomes in online learning will get good (optimal) results if supported by high curiosity (curiosity) and self-confidence. The results of the calculation of the double correlation between curiosity (X<sub>1</sub>) and self-confidence (X<sub>2</sub>) on learning outcomes (Y) in this study can be seen in Figure 7.



Figure 7. Calculation results of Correlation between variable  $X_{\rm 2}$  and Y

# B. Discussion

The data obtained in this study indicates that the learning outcomes of most students fall into the "less than satisfactory" category. Additionally, more than half of the respondents are classified within the moderate category. Based on this analysis, it can be concluded that the learning mathematics outcomes of students participating in online lectures are still not satisfactory, because more than half of the respondents showed learning outcomes that were in the moderate and low categories. This is understandable because lectures that are carried out online have many determining factors, including the existence of basic and supporting literature, the availability of facilities and infrastructure (computers, and internet networks), and the seriousness of each student in learning and developing their knowledge. This is certainly related to the curiosity and self-confidence of students in carrying out their lecture process.

The analysis of the research results also indicates that the curiosity of students participating in online lectures remains unsatisfactory. Only a small proportion exhibit sufficient curiosity or fall into the high category. According to the correlation coefficient relationship guidelines in Table 3, the relationship between curiosity and student learning outcomes in online learning is classified as very strong. It is clear that obtaining good learning outcomes must be accompanied by a very strong drive for curiosity. Conversely, a lack of/weak curiosity will certainly make it difficult to expect to obtain high learning outcomes.

From the results of the study, it can be concluded that the self-confidence of students whose lectures are conducted online can be said to be still unsatisfactory. Only a small portion have sufficient selfconfidence or are in the high category. It is clear that obtaining good learning outcomes must also be accompanied by very strong self-confidence. Conversely, lack of/weak self-confidence can hinder the enthusiasm for learning which ultimately has an impact on optimal learning efforts. Therefore, self-confidence needs to be built so that enthusiasm and motivation to learn to grow well are expected to provide support for achieving high learning outcomes.

The results of research related to the influence of self-confidence on curiosity show that student learning outcomes in online learning will get good results if supported by high curiosity and self-confidence.

In line with research (Suryanda et al., 2022), in biology learning it was found that self-confidence and curiosity have a positive influence on student motivation. This also has an impact on student learning outcomes. As well as research conducted by (Setiawan et al., 2022) that self-confidence and curiosity result in better student perseverance, this also has an impact on student learning outcomes.

According to (Hanifah Ameliah & Munawaroh, 2016), self-confidence and curiosity have a positive influence on the mathematics learning outcomes of grade VII students. Even self-confidence can improve students' creative thinking skills (Trisnawati et al., 2018) . and according to (Salirawati, 2012) self-confidence, curiosity, and entrepreneurial skills are 3 important characteristics that students must have.

Therefore, the importance of the role of lecturers or teachers is to increase students' self-confidence and curiosity in order to provide optimal learning outcomes.

# **IV.** CONCLUSION

Based on the analysis and discussion of the data in this study, the following conclusions were drawn: 1) More than 50% of students in the Mathematics Education program have unsatisfactory learning outcomes. 2) There is a significant relationship between curiosity (X1) and learning outcomes (Y), with a correlation coefficient of 0.841. 3) There is a significant relationship between self-confidence (X2) and learning outcomes (Y), with a correlation coefficient of 0.830. 4) Curiosity (X1) and self-confidence (X2) collectively have a significant relationship with learning outcomes (Y), reflected in a correlation coefficient of 0.895. This coefficient increases when both variables, X1 and X2, simultaneously improve.

Given the possible weaknesses that may occur due to limitations and omissions in the implementation of this research, several suggestions can be made for a more in-depth study. 1) it is necessary to carry out a more rigorous standardization of research instruments by observing and considering various more comprehensive theories regarding the psychological variables of curiosity and self-confidences. 2) it is necessary to research on a broader scale, involving students from several universities with the same characteristics as research subjects.

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