

STUDENT DISCIPLINE IN THE ERA OF INDUSTRIAL REVOLUTION 4.0 IN PUBLIC HIGH SCHOOLS IN PADANG PANJANG CITY

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ABSTRACT

This research is motivated by the low level of student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City. This study aims to determine how high student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City in terms of indicators of time discipline, discipline of action and discipline of dress.

The type of research used is quantitative descriptive research, which has a population of 1607 students. Sampling was carried out using the Simple Random Sampling technique, the sample size was determined based on the Slovin formula and obtained a sample of 95 students. In this study, the instrument used was a questionnaire using a Likert scale. The distribution of the research questionnaire was tested on 20 students at school. The trial data was processed using the product moment formula with the value of r table for $N = 20$ is 0.444, guided by the value of r product moment. After conducting a trial on 30 questionnaire items, the calculation results obtained 30 valid items.

From the results of data processing, it is found that student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang city on indicators 1) time discipline with an average of 4.32 in the high category, 2) discipline of actions 4.30 in the high category, 3) discipline of dress 4.44 in the high category. Thus, it is concluded that student discipline in the era of the industrial revolution 4.0 in State Senior High Schools in Padang Panjang City is at.

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1. INTRODUCTION

The industrial revolution 4.0 is an era of disruption characterized by the replacement of old systems with new technology-based systems in the form of IoT (Internet of Things). IoT is a concept where certain objects have the ability to transfer data over a network without requiring interaction from human to human or human to computer device. Germany is a pioneer in the utilization of IoT, and since the 1990s, the country has introduced the term "industry 4.0" which later became popular globally (Andreja: 2017).

In the realm of education, both teachers and students have begun to adjust to the challenges that arise in the era of the industrial revolution 4.0. The concept of education 4.0, inspired by industry 4.0, has similar characteristics especially in the use of technology in the teaching and learning process. Easy access to information, transfer of information, and the ability to create new things can all be done easily through computer and network connections. Changes from conventional ways of working to more

efficient ways of working automatically encourage changes in mindsets, work methods, and the dynamics of relationships between individuals or groups in society. An intelligent response to these changes can result in positive impacts, but conversely, if not dealt with wisely, the changes can be detrimental to both oneself and others.

Student discipline skills in the age of industrial revolution 4.0 is one of the important aspects that must be possessed by learners. Student discipline involves the ability to manage oneself, obey rules, and take responsibility for one's actions. In addition, student discipline also has a significant impact on academic achievement, mental well-being, and readiness to face future challenges. Maintaining discipline in the school environment is a responsibility that every student must fulfill in order to effectively achieve learning objectives.

The era of industrial revolution 4.0 requires students to have higher order thinking skills, creativity, innovation, and information and technology literacy, which can be improved through the STEM (Science, Technology, Engineering, and Mathematics) approach in learning. However, many students do not have good learning discipline to develop these skills, so they are less prepared to face the challenges of this era. (Risdianto, 2020).

Based on information obtained through field observations and observations conducted at State High Schools in Padang Panjang City in July 2023, there is still a lack of student discipline in the era of the industrial revolution 4.0. This can be seen from the phenomena that arise such as: 1. Students often play gadgets during class hours so that it can interfere with concentration during the learning process, 2. There are still some students who leave the class at the change of class hours, 3. There are still students who do not do homework because they are too engrossed in playing gadgets, 4. There are still students who are late for school because they stay up late playing online games.

Based on the existing reality, according to the researcher, in this 4.0 era it is very. Discipline needs to be made aware to every student so that students have high discipline, with discipline that arises because of self-awareness, students will succeed in their studies, without good discipline the atmosphere of the school and also the classroom will be less conducive to learning activities.

Based on the description above, the researcher wants to conduct research on how student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City with the title "Student Discipline in the Era of the Industrial Revolution 4.0 in State High Schools in Padang Panjang City".

2. METHOD, DATA, ANALYSIS

This research uses descriptive quantitative. The population is all students in public high schools in Padang Panjang City, totaling 1607 students, the sampling method uses simple random sampling method using Slovin's opinion so that the sample of this study amounted to 95 students. Test the validity and reliability of the research using IBM SPSS 25. This method uses questionnaire data collection with a Likert scale. The data analysis method used in this study is the mean.

3. RESULT AND DISCUSSION

Table 1 Recapitulation of the average score of student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City

No	Indicator	Average skor	Categori
1	Time discipline	4,32	Hight
2	Discipline of action	4,30	Hight
3	Dress discipline	4,44	Hight
Average		4,35	Hight

In the table above, it can be seen that the average score of student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City is 4.35, this shows that student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City is high.

Discussion

Student Discipline in the Era of the Industrial Revolution 4.0 in State High Schools in Padang Panjang City in Terms of Time Discipline

The results showed that student discipline in the era of the industrial revolution 4.0 in State Senior High Schools in Padang Panjang City west seen from the aspect of time discipline was 4.32 and was in the high category. So that students need to maintain their time discipline and continue to make improvements in order to achieve excellent results.

As stated by Djamarah and zain (2010) school time discipline is the awareness and obedience of students to use time properly and in accordance with the rules that apply at school. Time discipline is important to support the smooth learning process and achieve educational goals.

Student Discipline in the Era of the Industrial Revolution 4.0 in State High Schools in Padang Panjang City in Terms of Dress Discipline

The results showed that student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City in terms of dress discipline was 4.44 which was included in the high category and needed to be improved in order to achieve good results.

As stated by Wisnu Aditya Kurniawan (2018: 1), a culture of discipline in implementing discipline is one of the alternatives that can be used as a tool for shaping the character of students. One of them is regarding manners in dressing which must be obeyed by all school residents every day for clothes or uniforms that have been determined using what and what shape must be made

Validity and Reliability Test Results

The validity test of the research instrument used IBM SPSS Statistic 25. The trial was conducted at State High Schools in Padang Panjang City on April 17, 2024. The questionnaire was given to 20 students at school. The trial data was processed using the product moment formula with the value of r table for $N = 20$ is 0.444, guided by the value of r product moment. After conducting a trial on 30 questionnaire items, the calculation results obtained 30 valid items.

The results of managing reliability data for student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City, namely r count = 0.923, while r table $N = 20$ with a significant level of 5% is 0.444. So ρ count > ρ table (0.923 > 0.444) indicates that the research questionnaire is reliable.

4. CONCLUSION

Student discipline in the era of the industrial revolution 4.0 in State High Schools in Padang Panjang City can already be said to have high discipline, this can be seen from the average score of 4.35 which is in the high category, with details described as follows: 1) time discipline indicators with an average of 4.32 in the high category, 2) action discipline indicators 4.30 in the high category, 3) dress discipline indicators 4.44 in the high category.

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