



The Perception of Students on Physics Learning Using Youtube Channel at State Senior High School in Jantho

Yuni Syahraini^{1*}, Elisa², A Halim³

^{1,2,3} Department of Physics Education, Syiah Kuala University, Banda Aceh - Indonesia

*Corresponding email: [yunisyahraini27@gmail.com](mailto:yunisyaahraini27@gmail.com)

ABSTRACT

This study aims to determine the perceptions of Jantho City 1 Senior High School students towards the use of the youtube channel as a medium for learning physics. This type of research is descriptive research. The approach used in this study is a qualitative approach, where the sample in this study were all 24 students of senior high school 1 Kota Jantho High School students. The data collection techniques used were questionnaires or questionnaires to obtain data on the perceptions of Jantho City 1 Senior High School students on the use of the youtube channel in physics learning. Processing data using the percentage formula (%). The results of the overall student show that 54% of students perceive strongly agree, 46% of students perceive agree, 0% of students have moderate perceptions, 0% of students perceive disagree, and 0% of students at SMA 1 Kota Jantho perceive strongly disagree with the use of media channels youtube in physics learning. Where the average student has a very good perception of learning physics using the youtube channel.

Keywords: Perception, youtube channel, physics education

INTRODUCTION

In the modern era, technological development is developing very rapidly when it runs both in developed countries and developing countries, especially in Indonesia, which includes developing countries. Its development in two decades provides overall thought and renewal of all aspects of human life (Deni Darmawan, 2012: 27). Judging from its development, it is very important for human life. It is intended for young generations as a foundation in the field of education.

The education sector is of particular concern to the Indonesian government, because education is one of the determinants of the success of a nation. Education can not be separated from teaching and learning activities in schools or referred to as the learning process. In the learning process many problems are discussed for students, educators, and also facilities and infrastructure. Problems discussed by students such as the failure to deliver the teacher's message in the learning process and consideration of understanding students about the material discussed.

Daryanto (2012: 6) states that "The learning process is a communication process and takes place in a system so the learning media determines the position as one component of the learning system". Learning media is a tool that can be used by teachers during the teaching

To cite this article: Syahraini, Y., Elisa, & Halim, A. (2019). The Perception of Students on Physics Learning Using Youtube Channel at State Senior High School in Jantho. *Asian Journal of Science Education*, 1(1), 26-33. DOI: xx.xxxx/xxxxxxxX.2019.xxxxxxx

and learning process. According to Sadiman (2006: 7), "Media is something that can be used to channel messages from recipients to recipients, can help thoughts, feelings, concerns and interests and concerns of students who pay attention to how to make the learning process happen". There is no successful learning process One of the things that depends on the role of the teacher in developing learning media that can improve competency and student participation (Indah Kosmiyah, 2012: 21).

Problem of Research

In general, the learning media used are conventional learning media, such as books. Most people, especially teenagers today are less fond of traditional learning media because they are considered boring and difficult to understand (Wahono, 2010). But now there are many technologies that can be utilized in the learning process, besides that students also have better understood the use of these technologies as demands of an increasingly modern era. This is seen by the use of social media available on the internet site, where almost all students have had the knowledge and use of it in everyday life.

In addition to the use of video from the youtube media channel that is easily accessible, the media can make the atmosphere in the learning process more attractive so students are not easily bored and interested in learning especially when faced with exact lessons such as physics which are considered difficult by students. This happens because physics is a science that is not far from concepts, understanding concepts, solving complex problems through mathematical approaches. In addition, the limited time to do practicum makes it very difficult for students to understand the physics material delivered by the teacher. Based on the research conducted by Cut Dina Oktavia, (2017) who examined the relationship between the use of the YouTube channel as a learning resource and map reading skills with integrated social studies learning outcomes for students VIII of SMP 17 Banda Aceh. Where the results of his research showed that the use of youtube as a learning resource and map reading skills had the highest relationship compared to other variables. Furthermore, research has been carried out by Suma which examines the effect of using YouTube media in science learning on learning motivation and understanding students' concepts. The results of his research there are differences in motivation and understanding of students' concepts by using YouTube videos.

Research Focus

Based on the above statement where research has been carried out on the use of the youtube channel as a learning media to improve learning outcomes, understanding concepts, motivation, and increasing student activity have been carried out and the results of his research youtube media channel affect these variables. But how is the perception of students not yet known, so the author wants to do a study to find out student perceptions of the use of the youtube channel as a medium in physics learning and required direct assessment from students.

What is meant by perceptions of descending Walgito (2004: 88) is organizing, interpreting the stimulus that is sensed so that it is something meaningful, and is an integrated

response in the individual. After students perceive objects in their environment, then students process the results of the sensing so that the meaning of the object arises. Student perception is a process of treatment or response to an object, in this case the use of the youtube channel media in physics learning becomes sensory based observation which students can then interpret the object.

METHODOLOGY OF RESEARCH

General Background of Research

The type of research used in this study is descriptive research. The place of research was carried out in 1 Jantho City State High School in Aceh.

Sample of Research

The subjects in this study were all students of class X IPA 1 at Senior High School in Jantho, amounting to 24 people.

Instrument and Procedures

Data collection techniques used in the form of questionnaires / questionnaires to see student perceptions.

Data Analysis

In this study the data were analyzed qualitatively which was processed using the percentage formula (%).

RESULTS AND DISCUSSION

Before this research was carried out, the researcher had previously prepared a learning implementation plan (RPP) as a reference for teaching and learning activities, and for the process of collecting data in this study using a questionnaire in the form of a list of written statements given to Jantho City 1 High School students. Furthermore, from the research data that has been obtained the researcher conducted an analysis, while the results of the analysis are as follows.

1. The ability of students to receive / understand material using the youtube media channel

The ability of students to understand the material using the YouTube media channel is the first indicator used by researchers in the research questionnaire. This indicator contains information about students' abilities to receive / understand the material using the YouTube media channel. Data from the questionnaire on the first indicator are summarized in Figure 1 as follows. The ability of students to receive or understand material using the youtube media channel is the first indicator used by researchers in the research questionnaire. This indicator

contains six items of statements in which the contents of this statement aim to see students' perceptions of the ability of students to receive / understand the material using the youtube channel media. Data from the questionnaire on the first indicator are summarized in Figure 1 as follows.

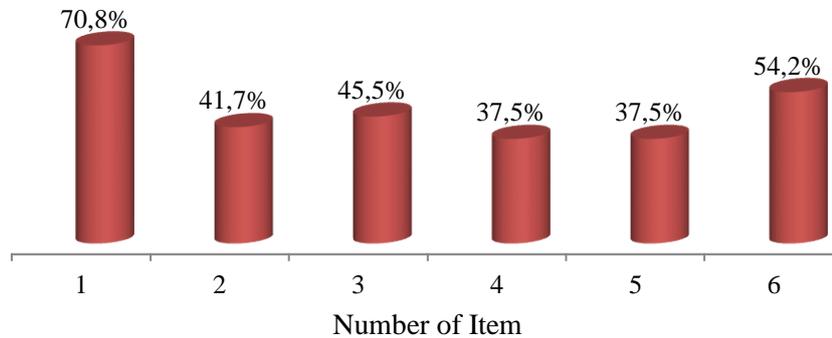


Figure 1. Percentage Graph of Students' Capability in Receiving / Understanding Material Using the Youtube Media Channel

Based on the results of data analysis as shown in table 4.1 for the first indicator that influences the perceptions of Jantho City 1 Senior High School students towards learning physics using the youtube channel and picture 4.1 which shows the average statement of students' perceptions. In the first indicator the ability of students to receive / understand the material using the youtube media channel, which shows material on the youtube channel displayed sequentially which can facilitate students in receiving material 70.8% of students choose to agree to the statement that the material displayed on the youtube channel is sequential so make it easier for students to receive material. Then the youtube channel is an audio-visual based media that can be seen and heard, this is very helpful for students in remembering physics material that is difficult to understand, of which 45.8% of students choose to agree to the statement that by seeing and hearing physics material on the youtube channel it is easier remembered. This is in accordance with the theory of learning which states that audiovisual media are teaching media and educational media that activate the eyes and ears of students in the teaching and learning process takes place (Rasyad, Darhim, 1997: 10).

In addition, using the youtube media channel in learning specifically physics learning can facilitate students in receiving and understanding the material with the animations on the youtube channel that attract students' attention so that it can make students' understanding more developed. This is evidenced by 37.5% of students choosing to agree with the statement that the animation displayed on the youtube channel is easier to understand compared to print media or other reading material. And as much as 54.2% of students choose to agree with the statement that the material displayed on YouTube is more interesting so that students' understanding is more developed. Thus, students will prefer physics lessons using the

youtube media channel, this is evidenced by 37.5% of students choosing neutral this can be appropriate also is not in accordance with the circumstances of the students.

2. Students' thinking ability when using the youtube media channel

Indicators for students' thinking abilities when using the youtube channel media contain 6 items of statements that aim to see students' perceptions of students' thinking skills when using the youtube media channel. Data from observations from questionnaires on the second indicator are summarized in table 4.2 as follows.

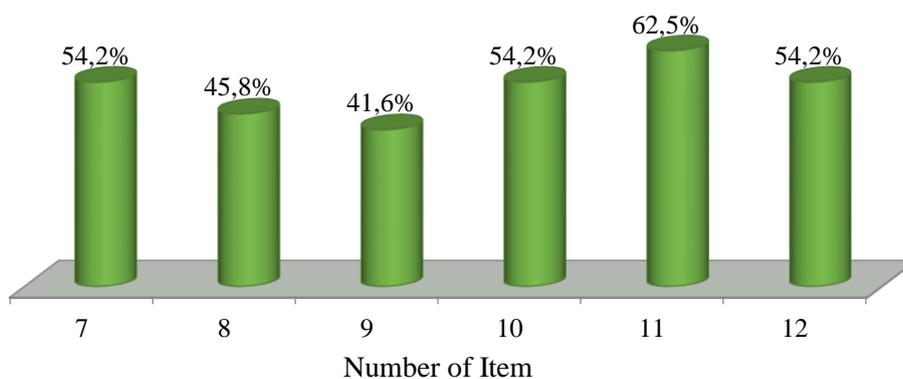


Figure 2. Percentage Perception Graph of Students' Thinking Ability When Using the Youtube Media Channel

Based on Figure 2 above the thinking ability of students when using the youtube media channel, 6 statements were submitted. From these indicators obtained as many as 54.2% of students choose to agree that the use of the youtube channel can increase students' insight into the material being studied. 45.8% of students agree that using the YouTube channel can lead to new ideas when students see the YouTube channel. Then 41.6% of students agreed that the use of the youtube media channel could add to students' curiosity. Furthermore, 54.2% of students agreed that by using the youtube media channel students could predict the phenomena that would appear in the trial process. That is, the use of the youtube media channel in physics learning can improve students' thinking skills. This is evidenced by 62.5% of students agree that students can draw conclusions when observing the phenomenon on the youtube channel. Then as much as 54.2% of students stated strongly agree with the statement that students can repeat the material on the youtube channel if students do not understand the material being studied. Thus the youtube channel is very helpful for students in learning and practicing their thinking skills.

3. The experience of students from the use of the youtube channel media

On the indicator of student experience from the use of the youtube channel there are 5 statements that are used by researchers to see students' perceptions of students' experiences from the use of the youtube channel media. Data from the questionnaire on the third indicator are summarized in Figure 3 as follows.

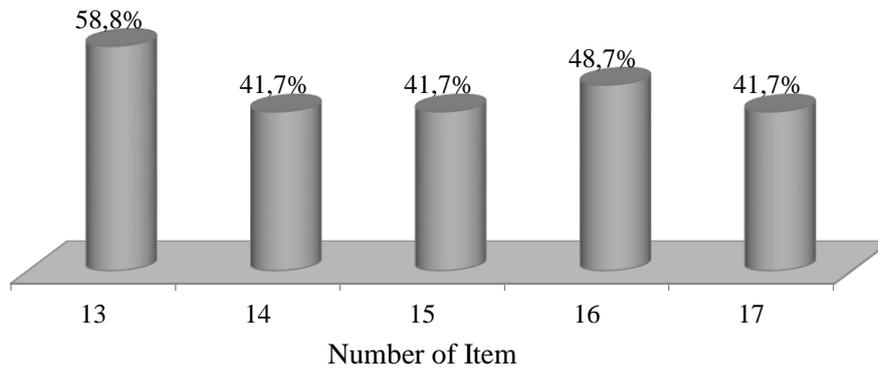


Figure 3. Percentage Perception Graph of Student Experiences from the Use of the Youtube Media Channel

Based on figure 3 above, it can be concluded that the use of the youtube channel in physics learning that makes students more focused will increase student activity which will make the learning atmosphere pleasant and not boring. This is evidenced by 41.7% of students agree with the statement that the use of the youtube media channel makes me active in learning, 48.7% of students strongly agree with the statement that using the youtube media channel learning physics is not boring, and is 41, 7% of students strongly agree with the statement that using the youtube channel learning media in the classroom is more fun. This is in accordance with the learning theory which explains that when students learn actively, it means that students dominate learning activities. If students are physically and mentally involved, students will feel a pleasant learning atmosphere (Zaeni, 2007: 16). Then for 58.3% students strongly agree with the statement of learning by using the youtube media channel to provide new experiences for students. That is, students have never used the youtube media channel in learning physics.

4. Student assessment of the use of the youtube channel media

On the indicator of student assessment of the use of the youtube channel media there are 6 statements that aim to see students 'perceptions of students' assessment of the use of the youtube channel media. Data from the questionnaire on the fourth indicator are summarized in Figure 4 as follows.

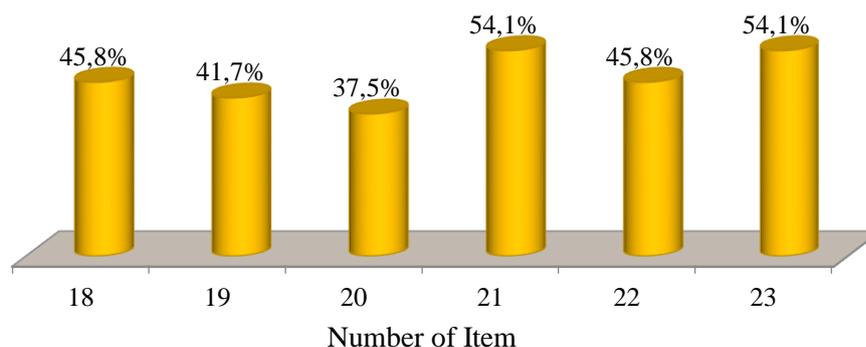


Figure 4. Percentage of Student Assessment Perception of the Use of the Youtube Media Channel

Based on figure 4, students' assessment of the use of the youtube channel media was obtained, as many as 6 statements were submitted. From the indicators obtained as many as 45.8% of perceptual students strongly agree with the statement that students are more enthusiastic when participating in learning using the youtube channel media. This means that enthusiastic students learn by using the youtube channel media, even though physics subjects are subjects that are less attractive to some students, but the use of youtube media channels in learning can make students interested in physics. This is evidenced by the results obtained at 41.7% of students agree with the statement that students are very enthusiastic about learning by using the youtube channel media, 37.5% of students strongly agree with the statement that students are interested in physics learning if using the youtube channel media.

Then the use of an easily accessible youtube channel can help students learn, this is evidenced by the results obtained at 54.1% of students strongly agree with the statement that students can learn when accessing the youtube channel besides school. Furthermore, obtained by 45.8% of students strongly agree with the statement that students can learn independently by using the YouTube channel, then for 54.1% students choose strongly agree to the ease of accessing the youtube channel anywhere and anytime.

CONCLUSIONS

Based on the results of the research that has been done, it can be concluded that the students of Jantho City 1 High School on average have very good perceptions of learning physics using the youtube channel.

Acknowledgment

The authors thank the respondents of students at state senior high school Jantho for participation. Because they wished to remain anonymous, they are not mentioned by name.

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