Youtube as Interactive Multimedia Learning Media in Increasing Learning Motivation

Rinaldi

{r.rinaldi.ymail.com}

Politeknik Negeri Padang, Kampus Limau Manis, Padang 25164

Abstract. Many students nowadays are not interested to study history and culture of Islam because the learning methods used are not interesting. This is because the learning method that is usually used is only using lecture methods that are boring and sometimes sleepy. Therefore, this study aims to develop You Tube as an interactive multimedia learning media in subject Islamic History and Culture. This study is quasi-experiment that conducted on 51 first year students of polytechnic in West Sumatera. The sample will be divided into two groups, namely the control class and the experimental class to assess the impression of using Youtube media. The results of the study found Youtube media increase learning motivation among students significantly.

Keywords: Youtube, interactive learning media, learning motivation, teaching tool

1 Introduction

The current flow and the progress of Information and Communication Technology (ICT) are accelerating. It cannot be avoided and must be faced by all parties related to the world of education, both educators and their students. Technological developments encourage changes in the world of education. Changes that occur include many aspects of teaching and learning techniques and curriculum. Conventional teaching and learning method based on text book do not effective to impress students [1]. There should be a media that can create the joy of thinking, skill and imagination of students. The process of teaching and learning or the teaching process is an activity of implementing the curriculum of an educational institution, so that it can help students achieve the educational goals that have been set. The purpose of education is basically to lead students towards changes in behavior both intellectual, moral and social in order to live independently as individuals and social beings. In achieving this goal students interact with the learning environment that is regulated by the lecturer through the teaching process [2]. The regulated learning environment includes teaching objectives, teaching materials, teaching methodologies and rules. These elements are commonly known as teaching components. The purpose of teaching is the formulation of abilities expected by students after he has taken various learning experiences.

Teaching material is a set of scientific material consisting of facts, concepts, principles, generalization of a science that comes from the curriculum and can support the achievement of teaching objectives [3], [4]. Teaching methodology is a method and technique used by lecturers in interacting with students so that teaching materials reach students so that students master the teaching objectives. In the teaching methodology there are two most prominent aspects, namely teaching rules and teaching media as teaching aids. From the description above it can be concluded that the position of the teaching media as a teaching aid is in the rules component, as one of the learning environments regulated by the lecturer [5]. For example the subjects of Islamic History and Culture which was taught with lectures and books beforehand so that students feel bored and often cause drowsiness which in the end this course loses essential. All of this series of history may become more interesting and easily understood if educators present it through varied media or interactive multimedia such as Youtube videos [6]. Research on the advantages of teaching using multimedia has been widely acknowledged by various parties around the world [7]–[9]. However, in its development, it has not been implemented in full universities. The development of multimedia use, especially Youtube, is lacking, especially in the subjects of Islamic because of the readiness of various parties, especially educators, especially related to the acceptance and use of multimedia. Previous studies about the use of multimedia as an interactive learning media are mostly studies involving preschool students, elementary schools or usually to explain science or exact subjects [6. Therefore, this research is important because there has been no published research involving first-year students especially the topic of Islamic History and Culture. Thus, this study aims to determine the effectiveness of Youtube as interactive multimedia learning media in increasing learning motivation.

2 Methodology

This study was a quasi-experiment. It was conducted on 51 first year students of polytechnic in Padang, West Sumatera were chosen randomly. Samples were divided into two groups: control (traditional method) and experiment (using Youtube as learning media). A set of five-scale Likert scale probing questions that have high reliability (cronbach alpha 0.8) of construct learning motivation is circulated for quantitative data collection. Data were collective for pretest and posttest. Pretest was a test that conducted before learning process, meanwhile posttest was a test that conducted after learning process according to each method (traditional and using Youtube media. The data obtained was then processed and analyzed using Statistical Package for Social Science (SPSS) Version 22. The analysis carried out was descriptive (mean, standard deviation, frequency and percentage) to assess profile of samples and level of learning motivation. Learning motivation classified into three level: low (mean 1-

2.33), moderate (mean 2.34 – 3.66) and high (3.67 – 5). The effectiveness of Youtube media in increasing learning motivation significantly was determined by ANCOVA.

3 Result and Discussion

This study was conducted on 51 students where 26 students of control group and 25 students of experimental group that the profile was figured in Table 1.

Table 1. Profile of sample based on gender

Gender	Tradisional method	Using Youtube media
Male	14 (53.8%)	13 (52%)
Female	12 (46.2%)	12 (48%)
Total per group	26	25

Table 1 shown that numbers of male student and female student as sample were almost balanced. Learning motivation during pretest and posttest were shown in Fig.1.
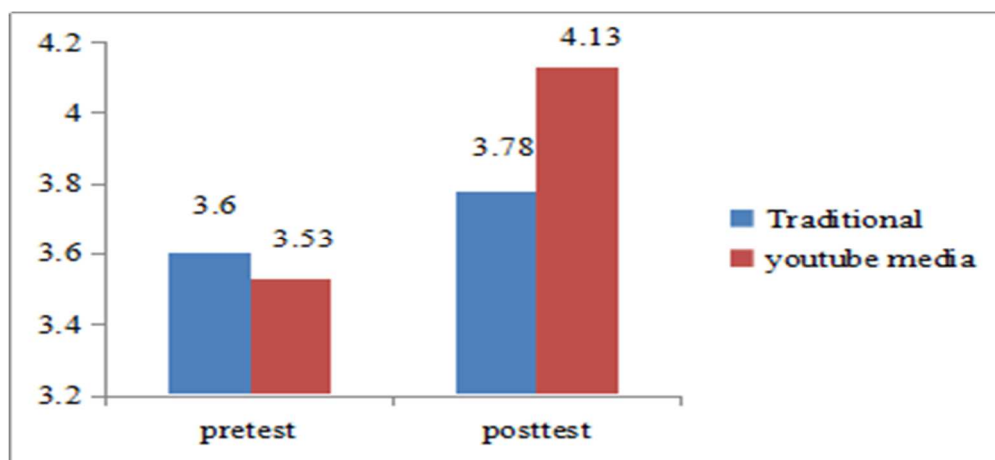

Fig.1. Learning motivation during pretest and posttest among traditional and Youtube media

Fig. 1 shown mean and standard deviation of learning motivation during pretest and posttest among control group using traditional method and experimental group using Youtube media. Before learning process, learning motivation both of groups were in moderate level (mean = 3.60 and mean = 3.53). Experiment groups tendency to have lower learning motivation (mean = 3.53) compared to control group (mean = 3.60). However, the difference not significantly that shown both of groups are almost equal in learning motivation. After learning process according to each method, Youtube media increased learning motivation

(mean = 4.13) higher than traditional method (mean = 3.78). ANCOVA analysis results of significant difference among traditional and Youtube media also shown in Table 2.

Table 2. Tests of between-subjects effects of learning motivation

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.820ᵃ	2	1.410	15.018	0.000
Intercept	2.384	1	2.384	25.388	0.000
Pretest	1.317	1	1.317	14.031	0.000
Method	1.795	1	1.795	19.118	0.000
Error	4.507	48	.094		
Total	804.240	51			
Corrected Total	7.327	50			

According to Table 2, ANCOVA result shown that learning process using Youtube media increased learning motivation significantly $[F(1, 51) = 19.118$, sig. $>0.005]$ than traditional method without Youtube media. Learning motivation among student in experimental group or using Youtube media higher than student in control group or traditional method significantly. Youtube media can act as a motivational tool for many students [10]. Young people are very charming with technology. Educators must take advantage of this interest, excitement and enthusiasm on the Youtube as interactive multimedia for learning purposes [11], [12]. For enthusiastic students, the multimedia allows you to provide them with interactive learning activities that are not available in the classroom. Youtube plays a role as a catalyst in enhancing learning in the classroom. A need to perform a due diligence before content providers are selected as content is Fulcrum.

4   Conclusion

Youtube media is one of effective learning media in increasing learning motivation among students. Moderate level of learning motivation increased to high level by using Youtube media. Good motivation influences the interactive learning process. Thus, this study has implied that Youtube is interactive multimedia that recommended to be conducted in learning process.

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