

Using Edmodo as an E-Learning Media in Geometry

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Abstrak

This study aims to describe the use of edmodo in the learning of geometry in the 4th semester students of PGSD Study Program of PGRI University of Madiun. Subjects in this study were lecturers of mathematics and students. This research is a qualitative research. The data in this study were obtained from observation. Data analysis techniques used consist of data reduction, data presentation, and conclusions. The result of this research is the learning of geometry by using edmodo as an e-learning media to help smooth the teaching and learning process in the classroom. In addition, learning geometry by using edmodo media makes learning mathematics more interesting and interactive for students and make learning in the class becomes not boring.

Keywords: Edmodo, e-learning, geometry

INTRODUCTION

The development of communication technology and social media is currently going so fast and fast. Any information can be accessed easily anywhere and anytime via smartphones, tablets and laptops connected to the internet. This condition is further supported by the offer of cheap internet access from various providers. The existence of internet access indirectly affect the way learners learn in finding information related to the material they learn. This can be seen from the tendency of students when given the task of lecturers, one of them solved by browsing on the internet.

Utilization of technology in the learning process encourages the creation of a variety of learning media that can be selected educators to use in learning. Hamalik (2011) explains that

technology is a messenger that can be utilized for learning purposes. In addition, the progress in the field of information technology gave birth to new concepts in learning based on IT or better known as e-learning. E-learning is an electronic learning system that enables learners to explore and can also become a bridge for learning anytime and anywhere (Zhang et al., 2006). Learning with e-learning can not be separated from the use of the Internet which is an important access. Daryanto (2013) explains that because of the nature of the internet that can be contacted at any time, it means students can take advantage of educational programs provided on the internet network at any time in accordance with their spare time.

One of the media that can be utilized in e-learning process is

edmodo. Edmodo is a social media that supports learning, with a similar look facebook. According Zwang (2010), "edmodo is a social networking-based education site in which there is a variety of content for education. Edmodo is a school-based environment network developed by Nicolas Borg and Jeff O'Hara, with features supporting teaching and learning (Nurita, 2011). The main feature of edmodo is the active support for the communication model of online social media, which is added with online learning material and online evaluation features.

In the process of learning Geometry is still very monotonous by using only notebooks, photocopian materials and textbooks. The lecturer is the most important facilitator in the delivery of knowledge to the students should be able to think creatively in creating the learning atmosphere for the science to be transferred can be accepted by students well. In fact the process of learning in the classroom is still many who have not utilized edmodo as a medium of e-learning. The learning process that is still manual makes the students less active in the classroom. Though learning based on web pages such as edmodo is very good and memorable towards students because they are able to foster new knowledge and useful to yourself.

METHODS

This research includes the type of qualitative research. According Sugiyono (2012) qualitative research is a research method used to examine the condition of natural objects, where

researchers are as a key instrument. The subjects of this research are lecturers and students of PGSD Study Program of University PGRI Madiun.

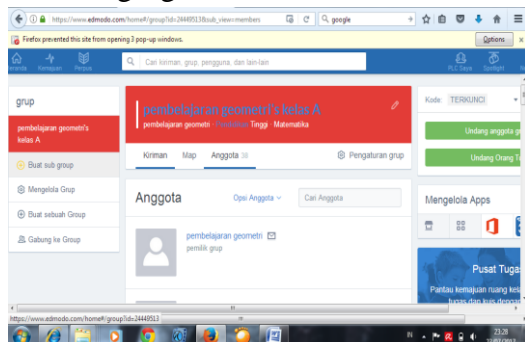
The data in this study obtained by researchers from observations of students and lecturers of mathematics, especially those who teach Geometry who has an account in edmodo. While the information in this study was obtained from various events. Researchers make direct observations in the field in the process of learning to teach Geometry.

Data analysis techniques used are data reduction, data presentation, and verification and conclusion. Data validation using triangulation (aggregate). Reduction of data ie data that has been obtained is reduced so as to provide a clearer picture and make it easier for researchers to perform data collection. Presentation of data is done in the form of a brief description. Verification and conclusion are new findings that have not previously existed. Findings can be a description or description of an object that was previously still dim so that after examined becomes clear.

RESULT AND DISCUSSION

Learning Geometry by utilizing Edmodo as an e-learning media started with group making, consisting of students of PGSD 4th semester which then grouped based on their respective class that is class A and B. This is aimed at when the lecturer assigns the task to the students, Not mixed with other classes. Students can also give their opinions to the group. The group

that has been created is a means of delivering the taught material. Then add a member consisting of students who are in that class. As seen in the following figure.



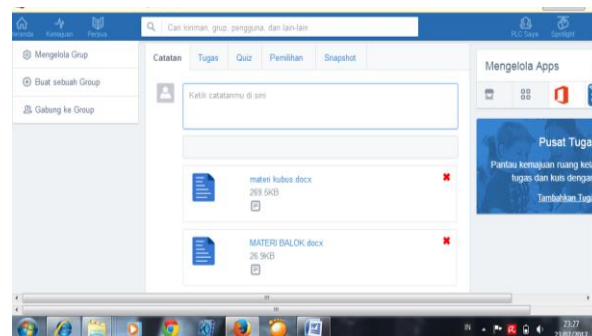
Learning by using edmodo based e-learning media is a learning that does not require a formal class for the learning process. When the lecturers menyampaikan materials through edmodo then students can read it wherever they are. The students have the freedom to be able to access and study the material according to their own wishes. This is in accordance with the expressed Mrs. Rissa as a lecturer of geometry.

"Learning with edmodo media should not be implemented in the classroom only, they can access it anywhere and whenever they want."

It is also confirmed by the students of the course as follows.

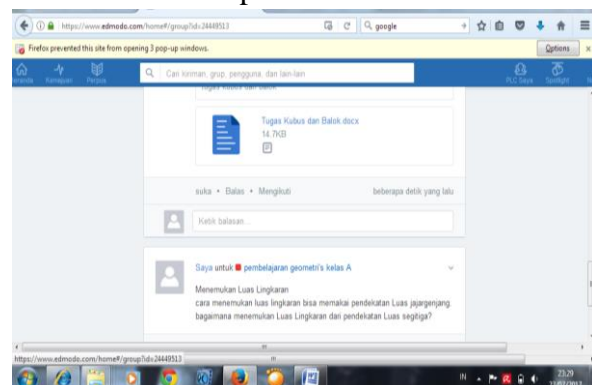
"Yes happy bu, because it is very easy. Whenever and wherever we students and lecturers can interact online.

Through edmodo, lecturers can deliver materials or tasks to the group that has been created, by mentioning the class and title of the material submitted. Students may comment or respond to the submitted material in place to write comments. As seen in the picture below.



Learning Geometry conducted with Edmodo as a media e-learning in the classroom is used when the lecturer will give the material wake up space. Before giving the materials, usually the lecturer sent the material to Edmodo the previous day so that the student can study the material. The next day when the learning process on the learning materials wake up, students are easier to understand. This is evidenced when the lecturers give the exercise questions, the students are able to finish it well. Learning Geometry using edmodo media is believed to have succeeded in making interesting and interactive mathematics learning for students as well as making learning in the classroom more interesting.

Edmodo is used by lecturers other than as a means to inform the material as well as a means to deliver tasks that can be done by learners. As we can see in the picture below.



Learning by using edmodo as a medium does have a lot of advantages such as do not need formal atmosphere in the learning. As expressed by one of the students of the course of geometry as follows.

"In practice it is the first lecturer good and discipline bu, the second learning does not have to be face-to-face for one semester. With regard to the collection of tasks should not always be collected in print because lecturers and students use edmodo media as an intermediary of learning. "

"Dalam pelaksanaannya itu yang pertama dosennya enak dan disiplin bu, yang kedua pembelajarannya tidak harus penuh tatap muka selama satu semester. Berkenaan dengan pengumpulan tugas tidak harus selalu dikumpulkan dalam bentuk cetak karena dosen dan mahasiswa memanfaatkan media edmodo sebagai perantara pembelajaran."

In addition to the advantages or also can be said of the advantages also there must be a weakness in the utilization of the media in the learning process. A learning medium that requires internet access in it would certainly have constraints if the network system used for access activities experienced interference. It is in accordance with the opinion of the students of the geometry course.

"At first I was still confused to follow him, but the longer the more accustomed as well. In addition, network problems bu. Need more funds to be able to buy the package for internet access bu. If the position in the campus environment can use campus

wifi but sometimes the signal is ugly so access is hampered bu. "

In addition to network problems, of course there is also a negative aspect of the utilization of such media as a medium in a learning process. A learning process that involves the role of educators and learners will certainly familiarize individuals to interact with the environment and surrounding communities. It would be better to use the media should be interspersed with face-to-face sessions, because if too often located at a great distance in a learning process of course students' social skills will be reduced. This is confirmed by the opinion of the lecturer of geometry as follows.

"The positive aspect is that there are so many easiness in the utilization that students can access anytime and anywhere materials and tasks and able to discuss with a group friend in edmodo to discuss the subject matter without having to be in class. While the negative side of course the lack of interaction that can be done between students with lecturers directly. "

In learning, media utilization must have negative and positive aspects. However, it is the creative level of the teacher who is able to turn his negativity side into the positive side of all. The lecturer should be able to optimize the utilization of a media that has been determined in the learning plan that has been determined.

Dalam pembelajaran, pemanfaatan media tentunya ada segi negatif dan positifnya. Namun, tingkat kreativitas dosenlah yang mampu mengubah sisi negatnya menjadi sisi

positif semua. Dosen harus mampu mengoptimalkan pemanfaatan sebuah media yang telah ditentukan dalam rencana pembelajarannya yang telah ditentukan.

CONCLUSION

Learning geometry by utilizing edmodo as an e-learning media certainly helps smooth teaching and learning process in it. Edmodo media certainly has a lot of advantages. But there are the negative side but the lecturer must be smart to negate the negative. The weakness of the lack of social interaction between individuals if too often utilize the media. But the negative side is not how apaila compared with the positive side. Lots of ease that we can find through the utilization of the media. Among them facilitate the learning process because the teaching and learning process should not always be implemented in the classroom. The materials and duties that are posted by lecturers in edmodo can be accessed by the students whenever and wherever they are. This will make learners feel comfortable learning because the learning environment in accordance with what they want.

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