

PROJECT BASED LEARNING IMPLEMENTATION TO ENABLE STUDENTS' ACTIVITIES

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ABSTRACT

This article is about project-based learning is a learning model that is used to enable the students. Project-based learning is learning that engages students directly in the learning process by providing a task or project to be done in groups which will produce a real product. A learning process in which students actively construct knowledge by means of constantly acquiring new information. Project based learning is an innovative learning model and a greater emphasis on contextual learning through complex activities that provide opportunities for students, working individually or in groups, and in touch with the real world. Implementation of project-based learning that can either provide capabilities that are beneficial to the students. The success of project-based learning occurs when students get motivated, active students in learning, and produce high quality work.

Keywords: Project Based Learning, Students Activities

INTRODUCTION

Project-based learning is a learning model that involves students directly in the learning process by providing a task or project to be carried out in groups to produce a real product. Teachers give students the chance to interact between students and other students, the teacher acts as a moderator. Teachers help students to develop their understanding, ability and may be an independent person. Teachers can provide convenience in the learning process by providing opportunities for students to determine or implement its own ideas for learning. Teachers engage learners are complex and designed to develop according to the real world. Teachers act to hold an atmosphere where students design

and directing it more independent learning means students actively conduct activities without waiting for an explanation from the teacher. On the implementation of project-based learning, students can be motivated to learn because the student is directly involved in solving the problem of learning. Furthermore, students can improve their communication skills since joining peers untuk express opinions, give arguments and accept the opinions of others in the group. Expected learning meaningful for students. In this case the students understand what is the meaning and the benefits of learning, so the motivation to learn appears, be conducive learning atmosphere, comfortable and enjoyable.

The learning process is most effective when students gain experience or knowledge gained by real experience so that students enjoy the learning process.

DISCUSSION

According Istarani (2011: 156), project-based learning is a model or an innovative learning approach, which emphasizes learning through activities contextually complex. The focus of learning lies in the concepts and principles of the core of a discipline of study, involving students in investigation of problem solving and activities of tasks means that other, allowing students to work autonomously construct knowledge of the students themselves, and peaked produce real products. Winataputra (2007:6) says that constructivism perspective rooted in a certain philosophy about people and knowledge and how one became aware and knowledge able, an important concern for the flow of constructivism.

There are several objectives to be realized in learning constructivist, namely: 1) motivate the students that learning is the responsibility of the students themselves, 2) develop students' ability to ask questions and find their own answers, 3) helping students to develop a sense or understanding of the concept complete, 4) develop the ability of students to become independent thinkers Rianto Y (2010 :145). Applications constructivist

approach to learning is that students learn together in small groups and help each other. By the time the students are working in groups, teachers around giving praise to a group that was working well, and provide guidance to groups that are having trouble. Teachers act to hold an atmosphere where students design and directing it more independent learning means students actively conduct activities rather than waiting for an explanation from the teacher. Constructivist is a stream that seeks to build the arrangement of modern life-style culture. Constructivist attempt to build a consensus that the most extensive and the ultimate goal and highest of human life. Constructivism is the basis of how students learn Moore (2005). From the foregoing it is concluded that teachers give students opportunities for interaction between students and other students and teacher acted as moderator. Teachers help students develop their understanding, ability and may be an independent person. Basically this perspective has the assumption that the more knowledge is contextual. This means that knowledge is formed into individual understanding through interaction with the environment and other people. Thus the role of the student contribution to the meaning, understanding and learning through individual and social activities are very important.

Hardini (2012:127), says that the project-based learning is a learning model that provides the opportunity for teachers to manage classroom learning with work involving the project. Project work includes complex tasks based on the questions and problems that are very challenging, and requires students to design, solve problems, make decisions, conduct investigations, as well as provide an opportunity for students to work independently. Based learning project-based learning usually requires several stages and some duration is not merely a series of class meetings and collaborative learning groups. The project focuses on product development or performance, the general student activity groups organizing learning activities of students, conducting studies or research, solve problems, and synthesizing information. Projects are often interdisciplinary. For example, a project to design *draft* for construction of certain building involves students in activities investigative document creation environment influence the development process, and develop a work sheet, which will include the use of concepts and skills drawn from subjects. In addition to a collaborative project carried out with must also be innovative, unique, and focused on solving the problems associated with student life. Uno (2011: 101) says that the model project tasks are usually learning model used to

determine a particular condition and plunge into the field. The application of this model in the learning activity gives students a task within a certain individual or group to produce a product. Activities that provide opportunities for students to summarize knowledge from various fields critically and creatively apply it in real life.

Project Based Learning can be an approach, strategy, or method of student-centered learning, interdisciplinary nature and long-term Sani, (2014: 171). Based on the above opinion that the project-based learning is learning that engages students directly in the learning process by providing a task or a project they need to do as a group without the help of teachers who will produce a real product. A learning process in which students actively construct knowledge by means of constantly acquiring new information. Project based learning a learning model that uses matter as a first step in gathering and integrating the new knowledge based on their experiences in real activity. Project-based learning is designed for use on complex issues that needed lesson in investigating and understanding. Based on the above it can be said that a process in which students actively construct knowledge in a way that will constantly gain new information.

Project based learning is an innovative learning model and a greater emphasis on contextual learning through complex activities

that provide opportunities for students, working individually or in groups, and in touch with the real world. Application of Project based learning that can either provide capabilities that are beneficial to students. The success of project-based learning occurs when students get motivated, feel actively in learning, and produce high quality work.

Here are the advantages of project-based learning model learning by Moursund in Hardini (2012: 130-131), namely: 1) Increased motivation 2) Increased problem-solving ability 3) improved library research skills 4) Increased collaboration 5) Increased resource-management skills. Increased motivation, project-based learning can increase students' motivation for the project students will strive to complete, students are also more enthusiastic in learning, and the delay in attendance would be reduced. Students are motivated to learn because it is involved in learning activities and given the opportunity to perform the activity. Teachers act gives motivation to the learners.

Increased problem-solving ability, learning environments using project-based learning model will be able to improve the ability to solve problems, make students more active and managed to solve the problems that are complex and improve problem-solving abilities. Improved library research skills, Due to project-based learning that students must be

able to accurately obtain the information through other sources of information, then the student's skills to seek and obtain information will increase. Increased collaboration, the importance of teamwork within the project requires students to develop and practice communication skills. Cooperative working group, evaluation of students, the exchange of information *online* is a collaborative aspects of a project, Increased resource-management skills, part of being an independent student is responsible for completing a complex task. Berabasis learning projects implemented either give to the students learning and practice in organizing the project, and make the allocation of time and other resources such as equipment to complete the task.

Based on the above opinion that the benefits of learning project-based learning is to increase student motivation, improve the ability to solve problems, make students more active, to develop and practice communication skills. Furthermore Kemendikbud (2014: 22) says the advantages and disadvantages of project-based learning are as follows: 1) increase the motivation of learners to learn and encourage their ability to perform essential job; 2) increase the problem-solving abilities; 3) to make students become more active and managed to solve complex problems; 4) increase collaboration; 5) encourage learners to develop and communicate 6) improve the skills of

participants manage resources; 7) provide experience to students learning and practice in organizing the project and make the allocation of time and other resources such as equipment to complete the task; 8) involves learners are complex and designed to fit real world; 9) involve the learners to learn to take the information and show knowledge is then implemented with the real world; 10) make learning fun.

Further weakness learning model Project Based Learning, as follows: 1) require a lot of time to solve the problem; 2) requires a considerable cost; 3) many teachers who feel comfortable with the traditional classroom where the teacher plays a central role in the classroom; 4) the amount of equipment to be provided; 5) students who have a weakness in the experiment and collection of information will have trouble; 6) there is the possibility of learners who are less active in the group work; 7) when the topic is given to each of the different groups, it is feared learners cannot understand the topic as a whole.

By paying attention to the strengths and weaknesses of the learning project-based learning above teachers should play an active role to overcome the weaknesses that exist by way of facilitating learners to solve the problem. Efforts were made which provides simple tools that are in the neighborhood or in other

words, using the environment as a learning resource.

In applying the model of project-based learning in the learning activities are guided by the steps that have been described in the foregoing discussion we can see that the project-based learning model learning can improve students' creativity. Because in carrying out the project in a small group of students are expected to issue a new ideas for projects they work on. They work with the aim of producing a product of their own work.

Project-based learning has the following characteristics: 1) learners make decisions about a framework; 2) the existence of problems and challenges posed to the learner; 3) learners to design a process to determine a solution to the problems or challenges posed ang; 4) learners collaboratively responsible for accessing and managing information to solve the problem; 5) The evaluation process is run continuously; 6) didi participants periodically to reflect on activities that have been carried out; 7) the end product will be evaluated qualitatively activity; 8) learning situation is very tolerant of errors and changes Kemendikbud (2014: 21). Project-based learning in teaching teachers need no guidance to learners in order to perform activities optimally.

The following guidance to do the teacher in project-based learning that is expressed Hardini (2012: 132):

1) encourage and guide students to understand the significance of the task at hand 2) designing assignments according to his ability that he was able to finish on time 3) encourage and directing students to be able to apply a wide range of knowledge / disciplines in completing the task at hand 4) encourage and guide students to be able to manage skill ability personality 5) encourage and guide students to conduct research with a variety of methods, media, and other sources 6) encourage and directing students working / discussion with friends in solving problems 7) encourage and guide students to be able to display their work in front of her friend.

Project Based Learning is a learning model that involves students in problem-solving activities and give students the opportunity to work autonomously construct their own learning, and ultimately produce valuable student work and learning realistic. Constructivism means providing opportunities for students to learn adopt to obtain knowledge. In other words constructivism is the theory of cognitive development that emphasizes the active role of students in developing their understanding of reality. Constructivism perspective rooted in a certain philosophy about people and knowledge and how one became aware and knowledgeable, an important concern for the flow of constructivism, (Winataputra, 2007). Basically this perspective has the assumption that the more

knowledge is contextual. This means that knowledge is formed into individual understanding through interaction with the environment and other people. Thus the role of the student contribution to the meaning, understanding and learning through individual and social activities are very important. Constructivism also have an understanding of learning that emphasizes process rather than learning outcomes. Learning outcomes as the goal of learning is considered important, but the process involves ways and strategies in learning is also very important. In the process of learning, learning outcomes, how to learn, and learning strategies will influence the development of the thinking person.

With a constructivist approach, the learning objectives are determined according to this approach on how to learn, which creates a new understanding that demands a productive creative activity in real contexts that encourage the learning to think again and then demonstrate it. Accordingly, it is that constructivism is the basis of how students learn. Applications constructivist approach to learning is that students learn together in small groups and help each other. By the time the students are working in groups, teachers around giving praise to a group that was working well, and provide guidance to groups that are having trouble. Teachers act to hold an atmosphere where students design and directing it more independent

learning means students actively conduct activities rather than waiting for an explanation from the teacher. Constructivist is a stream that seeks to build the arrangement of modern life-style culture. Constructivist attempt to build a consensus that the most extensive and the ultimate goal and highest of human life. This constructivist learning objectives determined in how to learn, which creates a new understanding that demands a productive creative activity in real contexts that encourage the learning to think and re-think and demonstrate. In theory the teacher's role is to provide an atmosphere, design and direct the learning activities that more wants students to understand and be able to apply knowledge, then it should work to solve problems, find everything for himself, and tried with ideas. According to the constructivist theory is an important principle in educational psychology is that teachers can not only sekedar provide knowledge to students, but students should build their own knowledge in his mind. Teachers can provide convenience in the learning process by providing opportunities for students to define or implement their own ideas for learning. System constructivist approach to teaching emphasizes teaching *top down* rather than *bottom up*.

In accordance with the above opinion means that students start with complex problems to be solved, and then find the necessary

basic skills with the guidance of teachers. Constructivist learning practices done to help students establish, change, or transform new information. There are several objectives to be realized in learning constructivist, namely: 1) motivate the students that learning is the responsibility of the students themselves, 2) develop students' ability to ask questions and find their own answers, 3) helping students to develop a sense or understanding of the concept complete, 4) develop the ability of students to become independent thinkers. Based on the above concluded that teachers give students opportunities for interaction between students and other students in this case the teacher acts as a moderator. Teachers help students develop their understanding, ability and may be an independent person.

CONCLUSION

Project Based Learning can improve students' learning activities, because in carrying out the project in a small group of students are expected to pull out of ideas, new ideas and opinions on the project. Students work with the aim of producing a product of students' work itself. Project-based learning is a learning model that uses matter as a first step in gathering and integrating the new knowledge based on experience in the move significantly. *Project-based learning* is designed to be used on the problem complex of the required lessons in

investigate and understand it. The project focuses on product development or performance of *the performance*, the general student activity groups organizing learning activities. Conducting studies or research and solve problems. Projects undertaken collaboratively should also be innovative, and focused on solving problems related to real life students. Students have the experience to set the time to complete a task that has been given sert can implement the knowledge in accordance with the real world.

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