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Effective Learning Models Used During the Covid-19 Pandemic

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Abstract

When the COVID-19 pandemic hit the world, including Indonesia, the government issued various policies, including in the world of education, one of the policies issued by the government was the teaching and learning process was carried out at home with an online system (Online), in order to break the chain of the spread of the Covid-19 virus. As a result, many educators are not ready or not used to doing online learning processes, because the online learning process is different from face-to-face learning, both in terms of the learning model that is designed, the learning methods used, and the learning media. In this study, we will discuss effective learning models used in the learning process during the COVID-19 pandemic.

Keywords: Learning models, Online learning, Covid-19

INTRODUCTION

Education is a conscious and planned effort in the sense of a deliberate and carefully thought out process to create a learning environment, both a physical environment and a socio-psychological environment, and create a learning atmosphere in order to achieve learning objectives or competencies that must be mastered by students, so that students are actively develop the potential that exists within him to have religious spiritual strength, be able to control himself, have personality, intelligence, noble character, and skills needed by himself, society, nation and state [1]. Education is one of the most important things for a person to lead to a better future, have attitudes, feelings and souls towards things with the aim of achieving inner purity and religious spiritual intelligence in relation to getting closer to God the Creator [2].

In 2020 almost all countries experienced the Covid-19 virus pandemic which greatly affected various sectors without exception the education sector. Several policies were also issued by the government, one of which was the face-to-face learning process which was temporarily replaced with online learning using computers, smartphones, and others. This effort is expected to be able to decide the spread of the Covid-19 virus which has a huge impact on the world of education.

The online learning process is learning that is carried out virtually by utilizing available media such as whatapps, google classroom, google meet, and also zoom meetings [3], so that educators can ensure that students take part in learning at the same time. However, there are still many cases in the application of online learning including: uneven distribution of students and parents can use online media, not all parents of students can afford internet quotas, there are still many students' homes that are not reached by the internet network, the difficulty of students understand the material, and there are many other cases that often occur [4]. Therefore, an educator has extraordinary challenges in dealing with these problems, an educator must be able to choose effective learning models and methods that can be used in the online learning process.

The learning model is a pattern or plan that is used in the learning process as a guide for planning learning in the classroom [5]. The learning model is also interpreted as a method or

strategy carried out by an educator in carrying out teaching and learning activities, where in these activities involve students as recipients of knowledge [6]. With the learning model, it can help students learn in their own style, help develop learning strategies and provide ways to do learning [7]. There are many learning models that can be used in the learning process, such as project-based learning, problem-based learning, discovery learning, inquiry learning, and others. In choosing the right learning model, it is necessary to pay attention to its relevance to the learning objectives [8].

Due to the large amount of literature that discusses learning models, it is very interesting to be raised in this study about the learning models used during the COVID-19 pandemic, considering that learning is carried out online, it is necessary to apply good and appropriate learning models.

RESEARCH METHODS

This study uses the method of literature study or library research by reading and reviewing several national articles to answer the objectives of this study [7]. Search articles using Google Scholar, then collect theories and discuss issues regarding learning models used during the COVID-19 pandemic. Furthermore, researchers will look at various points of view regarding the competencies needed by educators in implementing the learning model and the competencies mastered by students.
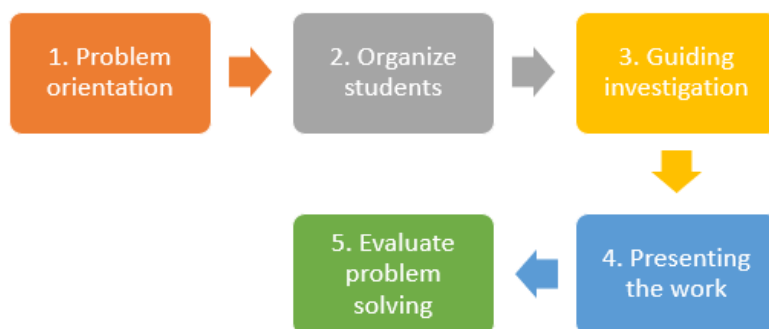
The analysis was carried out from various scientific articles related to the learning model used during the covid-19 pandemic. This article was obtained from national journals and various other similar sources. The researcher then analyzed and described the findings based on studies and observations [9].

RESULTS AND DISCUSSION

In the implementation of learning, educators must be able to master and apply various kinds of learning models [7] in order to achieve the desired learning objectives. During the covid-19 pandemic that spreads in Indonesia, educators must apply various variations of learning models, which require the knowledge and insight of educators to apply the learning model [7]. Learning models that can be used during the COVID-19 pandemic in this study include: Project Based Learning, Problem Based Learning, E-Learning, Guided Discovery Learning, Education, Blended Learning. It will be explained as follows.

A. Problem-Based Learning

Problem-based learning model is an innovative learning model that can make students learn actively in solving or solving existing problems, through scientific stages, so that students can learn knowledge related to the problem to be solved [10]. The steps in implementing the problem-based learning model are as follows [11].

Picture 1 PBL steps

Implementation of problem based learning in distance learning at Madrasah Ibtidaiyah can improve critical thinking skills, improve analysis and argumentation, improve problem solving skills, and assist students in cognitive, affective, psychomotor development [12]. Then the results of the research entitled the application of the problem based learning (PBL) learning model during the covid-19 pandemic, can improve student learning outcomes with a percentage of completeness of 86% [10]. Furthermore, Mulyani research, based on student learning outcomes there is an increase in learning outcomes between before and after the implementation of the Problem Based Learning learning method, which is 24.4% in terms of cognitive, an increase in value in terms of affective by 15%, and for learning outcomes in terms of psychomotor an increase of 15% [13]. From the research that has been done, the application of PBL in the online learning process is very effective.

B. Project-Based Learning

Project-based learning learning model is a learning model that involves students in solving problems carried out in certain time stages using scientific stages [14]. As for the characteristics of the project-based learning model, students design and carry out projects to produce certain products [15]. The steps of the project based learning model are as follows [16].

Picture 2 Steps proejct based learning

According to a study entitled the effect of project-based learning models on students' creativity during the pandemic, it showed that the implementation of project-based learning models assessed online showed better results than conventional learning models [17]. Then the research with the title of online learning analysis makes collage art using project-based learning models, students feel comfortable with project-based learning models because the learning process runs actively, but students and educators are not comfortable doing online learning because there are still many obstacles that must be faced and resolved, whether there is no internet network or others [18]. The implementation of the project-based learning model can also increase learning motivation [14].

C. Blended Learning

The blended learning model is a learning model that combines face-to-face and online [19]. One of the implementation studies of this blended learning model is to combine open learning with the zoom meeting application. And the results of the application of the blended learning model are able to improve students' critical thinking skills [20].

CONCLUSION

Learning models can help students to learn in their own style. The learning model is a conceptualization of the learning process activities that are arranged systematically with a predetermined time. There are so many learning models that can be used in the learning process.

But only a few are effectively used during the COVID-19 pandemic, in this study there are 3 learning models that are effectively used during the COVID-19 pandemic, including problem based learning, project based learning, and blended learning.

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