



THE APPLICATION OF BLENDED LEARNING METHODS TO HELP IMPROVE REASONING POWER AND MASTERY OF EMBRYOLOGY SUBJECT MATTER

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Abstrack

Humans have different reasoning powers and mastery of the material; some are quick to respond, some are semi-quick to react, and some are slow to respond. Because each student has a different pattern of life diet, to improve reasoning power that responds quickly from an early age, they have consumed foods with protein, vitamins, and high fiber such as fruits, UHT milk, immune supplements, chicken meat, beef duck meat, buffalo meat, mutton, eggs, vegetables, nuts, salmon, wheat, and finally diligent exercise to sleep precisely at 21.00 WIB, drink 18 glasses of mineral water per day equivalent to 2 liters. With such a lifestyle and diet, the development system in the brain is getting better to receive various information from anywhere and quickly. The blended Learning method is very appropriate to use in Learning. There are offline meetings (face-to-face), online meetings (zoom meetings), and outing classes where, with these three methods, students will be energized in varied Learning.

Keywords: Blended Learning method, Reasoning Power, Embryology

INTRODUCTION

The lack of integration of computer technology raises the assumption that online Learning or Zoom meetings cause students to tend to feel bored and bored lecture activities carried out via Zoom are very ineffective; therefore, lecture activities must use a blended method formulation, which means that online and offline lectures are carried out in one semester and one more outing class activity is essential, for example in the Bogor Agricultural Institute IPB laboratory, lecture activities outside the classroom are carried out to hold the learning atmosphere to be more relaxed and conducive not monotonous.

The reasoning power and mastery of loyal material of students varies; some are quick to respond, some are moderate or ordinary and some tend to be calm to understand carefully because each of them has a different responsiveness according to the health expert vitamin diet and nutrition significantly affect the performance of the brain where the brain needs nutrition from foods that have sufficient and balanced nutritional value, therefore from the age of marriage it is necessary to eat nutritious foods so that the nutritional adequacy can be balanced from the embryo to the fetus even until the age of conception and childbirth must be maintained vitamins and minerals so that the brain's performance is brilliant and becomes an intelligent person with a proactive response.

Blended Learning is a term derived from English, consisting of two syllables: blended and Learning. Composite means a mixture or a good combination. Blended Learning is a combination of

face-to-face and virtual learning advantages. The significance and importance of blended learning lies in its potential. Blended Learning provides clear benefits to create a learning experience by presenting the proper Learning at the right time to each individual. Blended Learning becomes a truly universal and global boundary and brings groups of learners together across different cultures and time zones. In this context, blended Learning can be one of the most significant developments in the 4.0 era.

It incorporates a variety of delivery methods, teaching models, learning styles, and diverse technology-based media. A combination of face-to-face learning, self-study, and online Learning. Learning that is supported by an adequate variety of delivery, teaching, and learning styles. Teachers and parents have equally important roles, with teachers as facilitators and parents as supporters.

METHOD

This research method uses a qualitative descriptive approach. Meanwhile, data was collected through observation, interviews, and literature studies. All data obtained was then analyzed qualitatively. Interviews were conducted with several students who studied online and offline.

RESULTS AND DISCUSSION

The objectives and categories of blended Learning are to help students progress in the learning process, provide practical-realistic opportunities for lecturers and students, and increase schedule flexibility for students by combining the best aspects of face-to-face and online Learning. They increased face-to-face activities and hybrid Learning. Blended Learning Implementation Efforts combine conventional learning activities (face-to-face) with Learning using computers or electronic equipment based on instructions from educators, where materials can be in the form of digital media used to assist conventional teaching and learning processes.

There are six stages in designing and conducting blended Learning for optimal results that students easily understand:

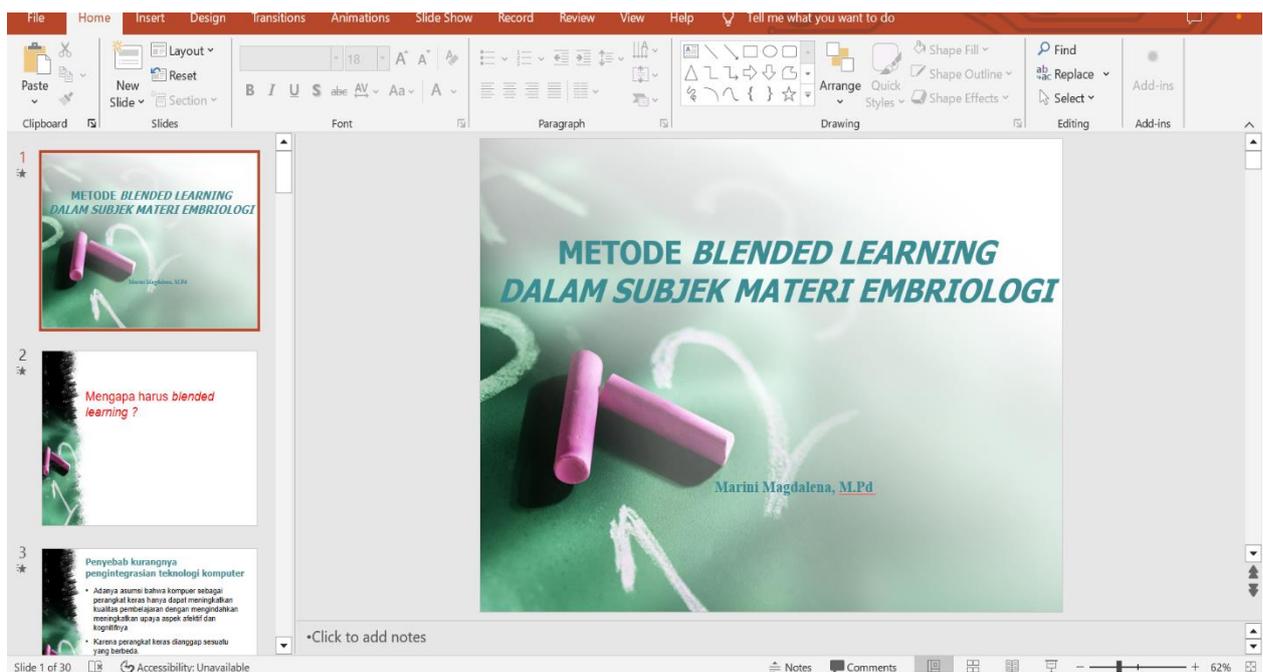
1. Determine the type and content of the course
2. Determine the Blended Learning design used
3. Determine the format of Online Learning
4. Test the design
5. Organize blended Learning well
6. Prepare criteria to evaluate the implementation of blended Learning

Blended Learning in online learning activities needs to be packaged so that the presentation of teaching materials becomes interesting, for example, in the form of videos and animations. Blended Learning can shift the learning paradigm from teaching-centered Learning to a new learner-centered paradigm. Blended Learning has the opportunity to increase interaction between learners and teachers, learners with each other, learners/teachers with content, and learners/teachers with other learning resources. Blended Learning has benefits: (1) The learning process is not only face-to-face but there is

additional learning time by utilizing online media. Besides that, it also facilitates the communication process between students and lecturers, helps accelerate teaching, and helps motivate student activeness who are involved in the lecture process.

In the subject matter of embryology, students can understand the material from reference books and powerpoints provided by the lecturer; there is also a learning video that is by the embryology material, then the material will be easily understood by students in addition to material from lecturers and audio-visual videos that are relevant to be understood by students. Generally, the Blended Learning method is enjoyable for students and easy to understand; it's more precisely learned, understood, and discussed in one discussion forum, namely in class.

Of course, with this method, it can be easier for students to understand the material conveyed by the speaker. Here is another outclass activity lecturer where it is adjusted to what material will be given; for example, the plant nursery process, of course, must go to the Banten Provincial Environmental Service where DLHK chooses Mount Pinang as a suitable place for plant cultivation the air is cool and has fertile soil abundant water. Hence, it is ideal for making a nursery or hatchery.



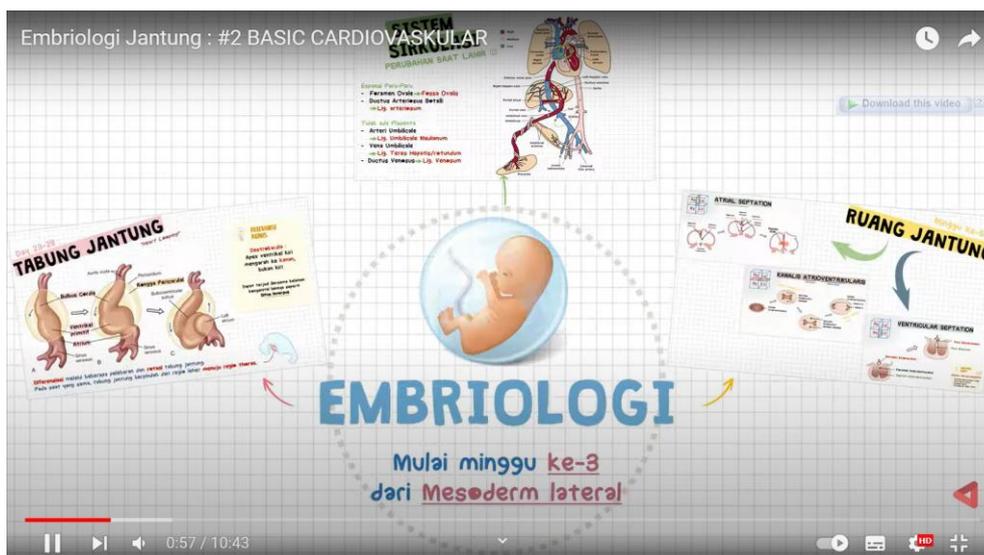


Figure 2 Learning video on the subject of Embryology

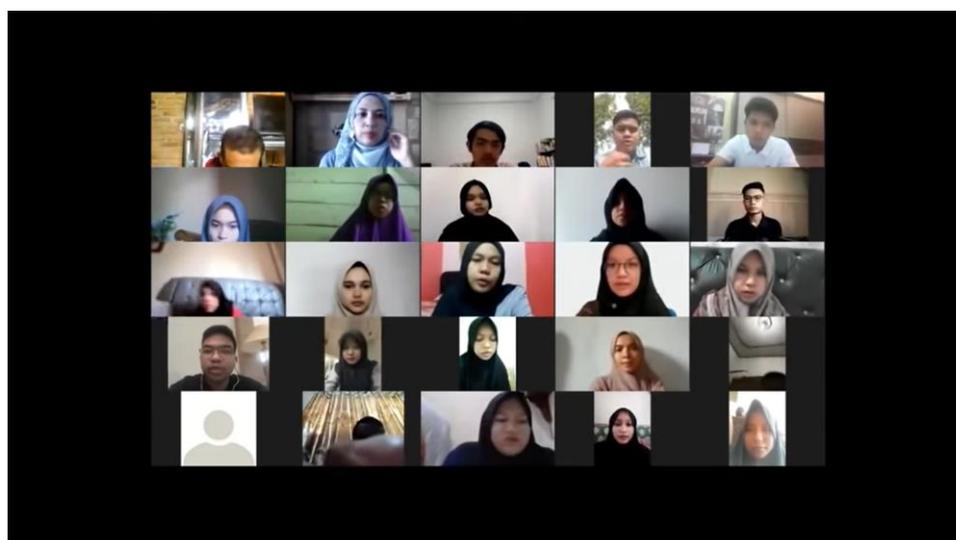


Figure 3 Online lectures via Zoom Online

Teachers can do a free test first for students to unify their concentration level. They can use Quiz with multiple choice as a minimum of 10 questions to train focus or concentration power. Teachers can give quizzes and utilize test results effectively. Disadvantages of Blended Learning Lack of knowledge of learning resources (teachers, students, parents) on the use of technology. Special skills are needed to organize e-learning, prepare digital references, And design references integrated with face-to-face. Need to prepare particular time to manage internet-based learning.



Figure 4 Live Face-to-Face Offline Lectures

CONCLUSIONS

Based on the discussion above, it can be concluded that the advantages and disadvantages of Blended Learning are that students are more able to study the material independently, student discussion activities are felt to be very effective during face-to-face lectures, and the teacher or dose can directly control them, the teacher can provide material via the internet or learning videos can be accessed via Youtube media to facilitate student understanding of the material presented.

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