

The Flipped Classroom Teaching Model for Assisting Student during Covid-19 Pandemic

Suroyo
Department of History,
Faculty of Teaching and Education,
Universitas Riau
Pekanbaru, Indonesia
suroyo11002@lecturer.unri.ac.id

Dewi Nasien
Departement of Informatic Engineering,
Faculty of Computer Science, Institut Bisnis dan Teknologi
Pekanbaru, Indonesia
dewinasien@lecturer.pelitaindonesia.ac.id

M. Hasnil Adiya
Departement of Informatic Engineering,
Faculty of Computer Science,
Institut Bisnis dan Teknologi
Pekanbaru, Indonesia
hasnil.adiya@lecturer.pelitaindonesia.ac.id

Bima Maulana Putra
School of Psychology and Human Development, Faculty of Social
Sciences and Humanities, Universiti Kebangsaan Malaysia
Selangor, Malaysia
bimamaulanaputra98@gmail.com

Abstract—Avoiding COVID-19 triggers chaos that produces certain office of government being collapsed. Instruction is one of the critical things that individual sought to consider, numerous schools and instruction offices have closed amid widespread. Be that as it may, online course is accepted that individuals may learn from separate. Flipped Classroom is known as online learning that uses technology as a platform for lecturing. The video or podcast that lecturers send a day before the class is believed to make students more understand about the subject that student who doesn't attend the class has a chance to get a lesson. The aim of this research is to describe how a flipped classroom is an advantage to help lecturers giving subjects to students by giving them a video of them lecturing with the method of this research is descriptive qualitative with the subject is 185 (participants that answered the survey) The result shows that flipped classroom is using technologies such as video platform, and podcast that provides many facilities for students to learn. However, this is believed to give a chance for ever students that give subjects equally, that students could get learned whenever they are.

Keywords— Education, Flipped Classroom, Lecturers

I. INTRODUCTION

COVID-19 has influenced numerous imperative objects within the world that has affected in financial, instruction, wellbeing and neighborliness, tourism, human exercises. The widespread has been a portion of human lives and alter numerous exercises. Preventing COVID-19 triggers chaos that creates certain division of government being collapsed. Instruction is one of the vital things that individual sought to consider, numerous schools and instruction divisions have closed amid widespread. Be that as it may, online course is accepted that individuals seem learn from remove [1]. Online learning requires access to technology such as electronic devices and internet connection. In reality, marginal area (isolated island, village, and marginal district) struggle with the problem. The family with financial issues also could not provide good access internet and devices for family members that are still in school [2].

An old design of teaching in the educational system has made students learn from reading journals, textbooks, and

do work on solving problems as homework which sets at home. Meanwhile, in University, students listen to lectures and taking classes face-to-face. The method of the flipped classroom is required for students to learn a lecturer independently by listening to the lecturer before the class.

The method is believed to improve their skill of knowledge and understanding of the study. However, students that want to learn could access the lecture through various platforms such as online books, certain websites that are related to videos, and software of learning [3]. The flipped classroom lets students study the lessons and topics through video and online media that lecturers and/or teachers prepared a day before the class. The learning is not necessary is made on video, but also could use any documents and books to learn. However, it depends on how teachers and/or lecturers manage the class.

During the class, lecturers and/or teachers will discuss the topics and lessons that students have read or also could use any documents and books to learn. However, it depends on how teachers and/or lecturers manage the class. During the class, lecturers and/or teachers will discuss the topics and lessons that students have read or watched. In this session, students will get help from lecturers and teachers. This is more useful than teaching or lecture students in person [4].

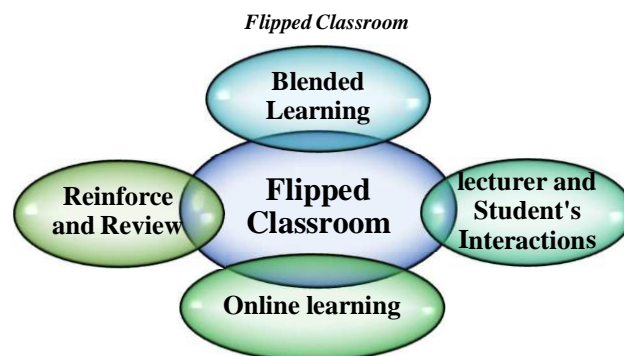


Fig. 1. Mindset of flipped classroom

The flipped classroom is a method that uses students as a center of study, that contribute for students to interact with the lecturers and/or teachers in the class, this is more effective that teachers could spend more time to discuss and improve the skill of problem-solving, instead of giving a ‘speech’ during the class [5] (Fig. 1). In Universities, the motto of this method is to collaborate working between students and lecturers to solve the problem, while lecturers could do some assignments, the students could learn the subjects and topics at home without ‘sitting on the couch. The strategy of flipped learning is a method for students that could learn anywhere and anytime they want. Even though, the flipped classroom is not just like an online class, but more likely an unlimited-learning class. The flipped method also has various modes, that students could learn the subjects in groups or individual [6]. That the class could create more improvement of learning abilities

The contribution of technology to this method could improve the affectability of the flipped classrooms. While, lecturers have chosen to do the lecturers differently, they could arrange the class and prefer the class as a “mindset” point. The main design of the flipped classrooms collaborates with four major techniques, however, the method of the flipped classrooms is included blended learning, lecturer students interactions, reinforce & review, and online learning. Flipped classroom method is the opportunity for the lecturer to students in class, by doing work, discussing subjects, and solving the problems [7]. A chance of students to get motivated by learning outside the college and campus could be a challenge for them to give the most experience of learning [8]. The learning by flipped method could be different. The majority of students will listen to the podcast or watch the video of their lecturers. Some of them also have checklist activities that they will remark the check if they understand about the lesson. In the class, they just do some short discussion with the lecturers, this is the easiest part while they just ask a simple question that they already know to the lecturers. For lecturers, to do the flipped method is just upload a video or podcast of them lecturing online. This is the main role of the flipped method, they not only observe and evaluate the students, but also follow and provide the knowledge and feedback from students.

Meanwhile, the flipped classroom takes control of blended learning by using media platforms to spread knowledge that everyone could learn not just at school, but also anywhere they are in. It also gives a chance for students that couldn’t attend the class [9]. Meanwhile, with the flipped method, students could access the study anytime they want, and they could repeat the subject if they still don’t understand. The flipped method could increase the skill of students that is not in the class, but get a chance to learn with the students that attend the class. The lecturers could help them and the students have a chance to understand the subjects. This method could trigger student’s motivation to study and improve their skill in academic. [10]. Technology in the 21st century should be an opportunity for the lecturer to develop their lecturing method.

Based on the experience of lecturing. Many university

students that are enrolled in History Department, Riau University have trouble attending the class due to various reasons such as internet issues with students who live in marginal areas, lack of access to finances that students couldn’t afford more for internet payment. The flipped classroom could affect the academic performance of students, while some students that couldn’t attend the class, have a chance to learn by watching videos or listen to podcasts. The novelty of this research is to give a concept of the flipping classroom as a method to online learning for students to study subjects by watching videos on the online platforms.

II. METHODS

The literature data will be collected from journals, e-books, and articles that are related to a flipped method and related documents. A key of terms will be constructed and the sources will be correlated with this topic. To the aid of this research, a key of terms will be constructed and the sources will be correlated with this topic Data collection is collected by related journals and previous journals about flipped methods and modes for learning. The data will be viewed from the education field’s perspective and educational psychology’s view. It also has linked to online classes and blended learning. The relevant articles of this research will be collected from Research Gate that is related to the topic. A technique of collecting data also used the survey as primary data and the library method as secondary data to give an actual result of this research. The technique is believed that using library research method could give advantages such as easy access to get data from electronic libraries, the catalog allows of organization, other online resources. Meanwhile, observation and survey will give to 235 participants that are enrolled in the history department, Faculty of teaching and education, Riau University.

In general, the data will be learning and understanding based on previous researches, certain articles, and related theories of the flipped method as primary data and secondary data. The data analysis is qualitative data with an interpretative and literature review of the study. The investigation was made by the teacher included in this study’s courses to create the codes and categories by perception. It could determine the data with observation and analysis about the concept of the flipped classroom. However, the data could represent an actual flipped method that might be affected toward student’s academic and performance in school. The contribution of this research is academic knowledge for study education. Wiser, this research is interpretative of the flipped classrooms in lectures.

III. RESULT AND DISCUSSION

A flipped classroom could be a sort of mixed learning where understudies are presented to the substance at domestic and practice working through it at school. This is often the switch of the more common hone of presenting modern substance at school, at that point allotting homework and ventures to complete by the understudies autonomously at domestic. In Flipped Classroom, learning does not happen as it were in a lesson environment. Learners are anticipated to require more dynamic parts in their own learning and to require more duty for their learning. In this preparation, instructors take the part of a

facilitator who organizes in-class exercises and who orchestrates the learning materials when fundamental focus out that, Flipped Classroom show spares learners from the repetitiveness of the conventional demonstrate and permits changing the course substance morethan once freely of time or places. In arrange to apply flipped classroom demonstrate it isn't essential to be a proficient video maker it is conceivable to utilize any source that clarifies the subject [5].

Agreeing to the writing, a few of the focal points that a flipped classroom can give to the learning environment are: 1) the altered classroom permits the teachers to cover more fabric; 2) understudies taking part within the altered classroom performed as well or superior on comparable test and exam questions and on open-ended plan issues; and 3) whereas understudies at first battled with the unused arrange, they adjusted rapidly and found the modified classroom arrange to be palatable and successful. Another advantage is that this strategy may give criticism and expanded understanding; this was one of the most interfaces for the creators of this paper to incorporate this strategy in their educating forms and to do investigate it. Above all, this era of understudies “was born within the innovation period, and they are exceedingly persuaded when it comes to things they can see, do, and understand”.

In other words, flipping the classroom may be a strategy that might offer assistance to the learning environment. In a conventional learning environment, learning happens in a certain period of time in the course, whereas in Flipped Classroom show, more in-class exercises and applications are carried out by exchanging learning to the out-of-class environment, which permits learners to take part more in a dynamic learning environment. Flipped classroom approach isn't equivalent word with online recordings, the imperative point is the intuitive exercises done amid a time when educators and understudies are confronting to face.

It isn't using video rather than teacher neither isn't working unsystematically of understudies. The process of creating a video isn't understudies investing all course period before a computer. It isn't an understudy examining alone, such as video shaping types of gear, video hosting that is shaping the video, it ought to be set online forget to of understudies, and video interaction to supply teachers to get to a few data such as which understudy observed which address video, how long students observed, how understudies replied the questions within the video.

Process circle of Creating Video.

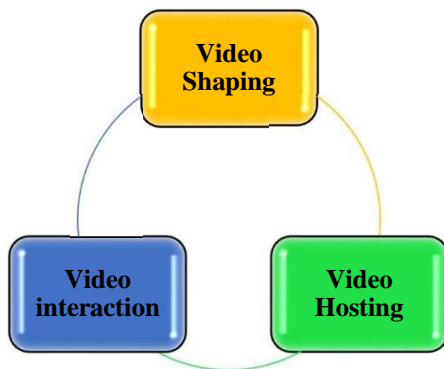


Fig. 2. Process of creating video for Flipped classroom.

To create a successful flipped method, The foremost vitalcalculate in flipped classroom approach is the part of the instructor The parts of flipped classroom teachers are displayed such as Making learning conditions based on addressing, Rather than exchanging information directly, being a direct to form learning simple, Making one to one interaction with understudies, Redressing errors, Individualizing learning for each understudy, Utilizing mechanical supplies appropriate for learning condition, Making intelligently discourse conditions, Expanding understudy changes from the inactive recipient of information to the dynamic promoter of information. In this approach, the parts of understudies are communicated such as taking their claim learning duties, observing address video as some time recently the course and planning for the course by utilizing learning materials, learning at his claim learningspeed, making vital intuition with his educator and companions, taking and giving criticism, partaking dialogs inside course, and taking an interest group working [5].

The come about of the consider are displayed another beneath each address of the study. The test was 235 but as it were 185 understudies reply the study. The primary address of the study was made to have a yes or no reply. This was a finished closed address fair to know the common recognition of the understudies. In the question “In your supposition, did the utilize of recordings as a complement for your course offer assistance your learning?” the majority of students (96%) answer “yes, it did” with the following comments as “They are clear, I can observe them anytime I need to, I just like the visual thing” “I am able to observe them at whateverpoint I need, it clarifies graphically and is fun, we are learning in another way” “I get it the concept and the idea” “They are simple to observe, everything is OK” and “It makes a difference to do the homework”. This survey is designed with 10 questions that each question must answer the following statement. The most focal points for understudies (agreeing to their perception) are: adaptability to memorize from the recordings (78%), way better comprehension of the substance (72%), an advantage since of past information to the course (35%), and inspiration for learning (28%).

TABLE I. PERSPECTIVE OF STUDENTS ON THE CONTENT OF FLIPPED METHOD INHISTORY DEPARTMENT.

CATEGORY	ANSWERS
Adaptability to observe the videos “You can observe the video any time youneed to”	78%
Makes a difference to get it the content “It trulymakes a difference to get it theconcept”	72%
It contributes to pastinformation (some timerecently taking the class) “You can get it what is it aroundsome time recentlyplanning to class”	35%
There's inspirationwhereas learning “You can learn and have fun at the sametime”	28%
Enduring time is adequate “They are not as well long so they are simpleto watch”	16%
Other answers	9%

Adaptability to memorize from the recordings (78%). A few of the students' comments were that they can observe the video at any time and put. They can too replay the video as numerous times as required and this makes a difference for them to have more time to handle the data and to get the cooperation of understudies, Sharing address recordings as out of course movement and Giving criticism by utilizing educational procedures [5] (Fig. 2). The role of students also takes the main control in flipped classroom approach meaning of the clarification. Another includes the understudies truly enjoyed is that they can observe the recordings earlier to go to lesson, which gives them more time for doing more hone cases and to be arranged ahead. 2)

Superior comprehension of the context (72%). A few understudies ought to prepare the data step by step and they believe that the recordings give the learning environment reasonable for accomplishing distant better; a much better; a higher, a stronger, and improved that is much better execution. The teachers made brief recordings that the understudies had to observe past to lesson, but moreover made a few recordings a short time later with data that given criticism of a few concepts the understudies did not understand. 3) Advantage since of past information to the lesson (35%) (Table I).

Among the impediments specified by the understudies are specialized issues (42%), which alludes to the web, program, etc. Another understudy's negative recognitions were the need for input at the time which they lean toward brief recordings than longer ones. The other disadvantages are numerous contend that flipped board isolates understudies carefully. The innovation required (computers, shrewd contraptions, web, etc.) are not open to numerous people. Flipped classrooms that utilize recordings to provide instruction in some cases endure specialized challenges/ troubles. Increments the time went through by understudies on computer screens. The extra time went through by understudies at domestic planning for themes is profoundly talked about [11]. Debilitates the conventional classroom instructing method. Similar to any other instruction procedure and demonstrate, the flipped classroom comes with certain focal points and drawbacks. Whereas the stars are huge, the cons are unavoidable. Let us see the benefits and downsides of flipped innovation within the classroom (Table II).

TABLE II. PERSPECTIVE OF STUDENTS ON THE TECHNOLOGY ISSUES OF FLIPPED METHOD IN HISTORY DEPARTMENT.

CATEGORY	ANSWERS
Specialized issues	42%
To have illustrations of illuminated problems “the recordings are primarily approximately concepts and it would be pleasant to have a few illustrations of issues- the total numerical solution”	18%
There's no moment feedback “When we observe the video there are a few questions and we cannot have criticism at the moment”	12%
They are as well long	11%

Concept investigation. Concept investigation is an educator-led portion of the method that introduces learners to what they are learning. Usually customarily the address or presentation portion of a course. In a flipped learning environment, learners are allowed more control over this portion of the learning cycle than they might have traditionally. Educators relegate a brief video or audio lecture, Web destinations, or other materials to explore. Learners at that point get to require control of their learning by perusing, observing, investigating, and listening to these components at their process pace and level. Teachers may deliver students, even more, control by permitting them to discover and share assets. A few learners may select to plunge more profound than they would be able to in a traditional classroom setting. Note that this stage does not ought to be innovation overwhelming; recordings, podcasts, and other media-rich advances are not basic for flipped learning. Understudies can too utilize textbooks, daily papers, diary and magazine articles, a client manual, or any other low-tech material to investigate a theme. Looking back at Bloom's Scientific classification, these exercises support remembering.[12].

Flipping a classroom frequently implies that teaches have to learn modern abilities. They will also have to spend more time, particularly within the beginning stages of flipping the classroom, to convert addresses to an organization that can be utilized by understudies outside of the lesson and to prepare lesson exercises. For this reason, suggest starting out gradually when entering the flipped learning world. It is additionally vital to consider that a flipped classroom does not have to be flipped 100 percent of the time. Not all fabric works well in a flipped learning classroom and educators must know when to use this demonstration. Keep up that a flipped demonstration works best after you require expertise dominance or behavior alter. “Courses that are more Socratic or inquiry-based, or those that don't have reams of truthful substance for understudies to memorize, aren't especially suited to flipping”. Indeed, when the fabric is well suited for employing a flipped model (Fig. 3).

Flipped (modified) classroom which is characterized as changing the put of classroom hones and out of course hones is portrayed as a prevalent educational approach in science, math, and other lessons. Flipped classroom demonstrate give an environment that incorporates Extend based or genuine world hones for learners in arrange to memorize the subject way better at course time.

Flipped Classroom Model

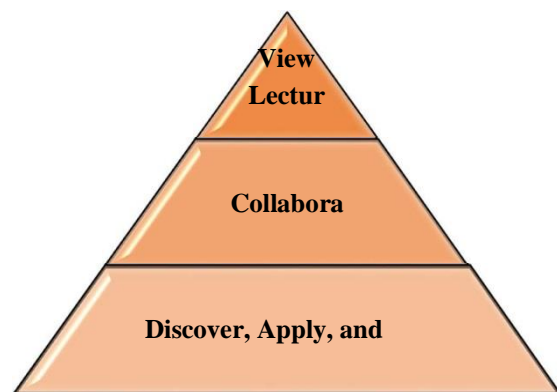


Fig. 3. Pyramid Process of Flipped Classroom Model.

The learner realizes learning by observing course recordings, tuning in podcasts, coming to e-books, and meeting with peers online rather than getting data introduction from the instructor at lesson time. Learners can reach these wide sources any time they required. So that, the instructor can spend more time interacting with each person [13]. Most objective is to supply learners with more true learning. The reason why the flipped classroom is favored is that educator has the chance to spend more time on classroom exercises and to adjust the issues with classroom exercises. In this way, indeed in swarmed classes victory can be accomplished.

Flipped classrooms energize understudies to be dependable in their claim learning as understudies in a flipped classroom will secure information exterior of the classroom and hone the information learned in class. In this sense, understudies will have more time associated with the instructors and instructors have more time to assist those understudies who are battling in learning mathematics [14]. Be that as it may, it is important to note that not all models of flipping are fitting for all levels or circumstances in education. Until understudies have a profound understanding of themselves, their learning fashion, and their motivation to achieve an instruction, the dominance flip demonstrates isn't a suitable fit [15].

IV. CONCLUSION

Lockdown is one of most squeezing issue that results of COVID-19 which have affect on instruction, unprivileged children might have one step cleared out behind that's related to learning misfortune. Be that as it may, instruction is one of primary needs that children ought to get for their future. The online instruction, seem offer assistance certain understudy with allesson family and taught guardians. Numerous nations exertion their decision to run a web lesson, that's supplanted face-to-face lesson, the choice address the affect of learning misfortune on understudies. The flipped classroom can be considered as one of the successful educating and learning procedures to be connected in a science classroom. In expansion, flipped classroom advances student-centered learning. In a flipped classroom, instructors are not acting as the as were individuals who convey data and understudies are the ones replicating down notes. The part of the educator in a flipped classroom is to encourage understudies. In addition, in a flipped classroom, understudies are now not sitting in lines and columns, but they are sitting in bunches. By sitting in bunches, it can energize understudies to examine and take an interest within the handle of their learning. As they get involved within the preparation of learning, information is built which tends to create things simple and superior for them to understand. Furthermore, understudies are working in bunches which makes a difference in cleaning up one of the 21st Century Aptitudes: Collaboration.

At the starting when understudies begin with entered auxiliary school, they may not be recognizable with the unused. In any case, a few suggestions for giving a more reasonable learning environment with the utilize of this strategy is to create brief recordings (no more than 5-10 minutes long) and to be mindful of students' needs and execution amid the learning forms so that the teachers can adjust, adjust or create modern ones. Too, to create beyond any doubt the innovation is accessible for observing the recordings. the flipped classroom can play a key part in cutting edge designing instruction by liberating time for learner-centered exercises and empowering understudies to gotten to be free self-learners.

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