



Effectiveness of Online Learning for Practical Course of Graphic Design

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ARTICLE INFO

Article history:

Received March 2024
Revised from March 2024
Accepted March 2024
Available online March 2024

Keywords:

Graphic Design, practicum course, online learning

ABSTRACT

The Covid-19 outbreak is spreading rapidly among the world's population. To prevent the virus, the government has adopted a social distancing policy. This pandemic situation has kept Indonesians at home. The learning process continues with the help of the internet and educators. Then, the students do not need to be at school for face-to-face direct learning. UIN Ar-Raniry continues to conduct online teaching and learning activities using e-learning media such as Google Meet, Zoom, Google Classroom, and YouTube. This study examines the effectiveness of online learning and the results of face-to-face online learning in graphic design practicum courses. This research uses quantitative methods. Data was collected by distributing questionnaires online to students in 2018 and 2017 and was processed using the SPSS program. The research results obtained show a practical value of 0.012 (sig < 0.05) for online learning in 2018 and 0.000 (sig < 0.05) for face-to-face learning in 2017, but some students experience difficulties in online learning.

1. Introduction

The Covid-19 outbreak is rapidly spreading among the world's population. The virus can spread from one person to another through the air. To avoid the COVID-19 virus, the government quickly decided on a quarantine policy that could prevent the virus and the application of social distancing and actions in regulating community activities. Indonesian people are exposed to the COVID-19 virus, so Indonesia is in a red zone situation. Therefore, to avoid the outbreak, the government-imposed Restriction of Community Activities and Large-Scale Social Restrictions in Indonesia in early 2021 [1], [2].

The world of education also feels the impact of COVID-19. Learning activities are conducted online from their residences, and face-to-face learning is stopped for a specific time[3]. The campus environment must also carry out the teaching and learning process online. It is to suppress the spread of COVID-19. Students must learn the various courses they take online. All classes can run smoothly through the online learning process. Online learning for students during COVID-19 can be done effectively. It is undoubtedly influenced by the strategy applied[4]. However, lectures with a practicum weight will feel less effective when learning online.

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DOI: 10.56806/jh.v5i1.167

With the pandemic, direct practicum cannot be done. Students can be helped to practice graphic design through online media. Students can carry out online practicum at home with a supporting internet network. It is optional to carry out a practicum in the campus computer lab. This learning process is expected to be effective when students learn without direct guidance from lecturers or teaching assistants, like a practicum system during face-to-face meetings. Without anyone's help, students can learn on their initiative. The term effective online learning is the basis for preparing this study so that institutions can provide the right policies amid the outbreak of the COVID-19 pandemic[5].

Based on initial observations from students of the Department of Educational Technology Information in the academic year 2018, graphic design practices continue to be practiced online utilizing various online applications such as Google Meet and Google Classroom, where students can carry out their lecture activities, and these applications can facilitate different things that contribute to Covid-19. Google Classroom has multiple features that collect assignments, assessments, and materials provided by lecturers, which can be downloaded directly, etc. Appropriate learning media assistance can improve student learning and provide enjoyable learning, which the knowledge conveyed by the lecturer can well understand. For example, Ar-Raniry State Islamic University has utilized various online applications to support learning and facilitate learning for all students in distance learning situations. The application of online learning is expected to increase students' understanding of the material received in class. The problem in online lectures is the obstacles experienced by students, namely the unstable internet network because each region needs a smoother network[6].

The following researchers want to know how effective online learning is during the practicum learning process for students from the Department of Educational Technology Information to graphic design practical courses. The results of this study can be known, such as whether students can carry out practicum online and understand what has been learned online. Learning outcomes are identified through comparison between online and face-to-face learning periods, so these results become input for the learning process next semester and become material for renewal in online learning, especially practicum courses.

2. Methodology

This research uses quantitative research methods. It can help researchers identify problems in online and face-to-face learning related to data in the form of numbers and statistical programs to test the relationship between variables[7]. Comparative studies were carried out in research to test the comparison of two subjects, namely the differences and similarities between variable X1 and variable X2 in two or more attributes of the subject under study. The questions to be studied are the effectiveness of the online learning class 2018 and face-to-face Graphic Design Practicum class 2017 of the Department of Educational Technology Information (PTI) UIN Ar-raniry Banda Aceh study program. Data was obtained by distributing online questionnaires containing questions in Google form [6], [8]. Data processing using the SPSS.

3. Results

In online learning, educators utilize digital media and the internet to convey material to students so that learning continues. Response to learning and mastery of material during learning and making students understand assignments are successful points of learning effectiveness. During

the learning process in class or outside the classroom, feedback is needed between educators and students to achieve effective and efficient learning. Requires good environmental conditions, facilities and infrastructure, and learning support media to perform all aspects of students' desired learning.

The questionnaire for this research was distributed to students with multimedia-specialized areas in the Class of 2018. So, the research results are the sig value of variable X against Y is $0.012 < 0.05$. Below is a table of the answers to the questionnaires from students in the online practicum graphic design course Class of 2018.

Table 1. Percentage of Respondents' Answers from the Online Questionnaire

Statement	Answer				
	STS	TS	N	S	SS
The graphic design material explained by the lecturer is easy to understand	4(20%)	5(25%)	8 (40%)	3(15%)	0%
I can ask my teacher and friends for advice when I encounter difficulties in learning the online practical of graphic design.	1(5%)	7(35%)	3(15%)	7(35%)	2(10%)
Online learning makes me enthusiastic in every graphic design practicum process.	1(5%)	5(25%)	8 (40%)	5(25%)	1(5%)
Grades for quizzes, practicum, midterm, and final exams of online graphic design courses are in accordance with the efforts made by students.	4(20%)	10(50%)	2(10%)	3(15%)	1(5%)
Graphic design practicum assignments can be done easily online	2(10%)	9(45%)	5(25%)	4(20%)	
Online graphic design practice learning allows learning activities to be controlled during the learning process	1(5%)	8 (40%)	6(30%)	4(20%)	1(5%)
The exercises given in the online graphic design course can be done normally, and the network is stable		9(45%)	5(25%)	5(25%)	1(5%)
The graphic design application that is used works well without a hitch.	1(5%)	5(25%)	9(45%)	5(25%)	
The use of features in the application used to learn graphic design online is easy to understand.		4(20%)	8 (40%)	6(30%)	2(10%)
I have difficulty doing assignments because of unstable internet facilities.			2(10%)	8 (40%)	10(50%)
The internet network used at home runs smoothly in online lectures on graphic design.	2(10%)	8 (40%)	5(25%)	5(25%)	
Classroom, YouTube, Google Meet, and other applications for online learning are effective[9].	1(5%)		3(15%)	10(50%)	6(30%)

Regarding the effectiveness of face-to-face learning, researchers distributed questionnaires online to 2017 batch students because the 2017 batch did a face-to-face graphic design practicum. The research that has been done shows that the sig value of variable X against Y is $0.000 < 0.05$, so

there is a difference between online learning and face-to-face learning. The answers to the questionnaire from the Class of 2017 PTI UIN Ar-raniry study program that face-to-face practicum is effective and makes it easy for students to understand the material that the lecturer has explained while studying, as well as practicum assignments are easy to do. There is a computer lab to make it easier for students who do not have a laptop to do the practicum, and there is a supporting network. Below is a table of the results of the questionnaire that was answered by the Class of 2017.

Table 2 Percentage of Respondents' Answers from the Face-to-Face Questionnaire.

Statements	Answer				
	STS	TS	N	S	SS
Learning graphic design courses face-to-face is easier for me to understand.	2(10%)	1(5%)	2(10%)	9(45%)	6(30%)
Learning graphic design practicum in a face-to-face manner can make it easier for me to discuss difficult learning materials.	2(10%)		4(20%)	6(30%)	8(40%)
Face-to-face teaching makes me enthusiastic in every graphic design practicum process.	2(10%)	1(5%)	2(10%)	9(45%)	6(30%)
Grades in UTS, UAS, and quizzes, as well as graphic design exercises given face-to-face, are in accordance with my hard work.	2(10%)	2(10%)	3(15%)	10(50%)	3(15%)
Practical assignments from graphic design courses taught face-to-face can be easily understood.	2(10%)		1(5%)	10(50%)	7(35%)
Face-to-face graphic design learning keeps learning activities under control during the learning process	2(10%)		2(10%)	13(65%)	3(15%)
Network conditions support when learning face-to-face graphic design practicum.	2(10%)		6(30%)	12(60%)	
The application that I use to learn face-to-face practicum is easy to run without errors.	2(10%)		5(25%)	12(60%)	1(5%)
The use of graphic design application features makes it easy for me to understand	2(10%)		2(10%)	12(60%)	4(20%)
Difficulty in doing practicum assignments due to poor internet network	2(10%)		3(15%)	12(60%)	3(15%)
During the graphic design practicum in the laboratory, the computer and internet conditions are very good.	1(5%)	1(5%)	1(5%)	14(70%)	3(15%)
Face-to-face learning of graphic design practicum can save the use of mobile internet data.	1(5%)	1(5%)	2(10%)	11(55%)	5(25%)

The results of the research were distributed in the form of a questionnaire containing questions about online learning and face-to-face learning in the graphic design practicum in the class of 2017 and the class of

2018. There is a comparison of learning effectiveness; data obtained from primary data from the 2017 class questionnaire results with 20 respondents, and the 2018 class totalled 20 respondents. Data collection was carried out from December 1 to December 18, 2020. The content of the questionnaire compares online practicum with face-to-face practicum so that the answers from these respondents can show the results of comparing the effectiveness of online learning and face-to-face practicum in graphic design. Based on the questionnaires that researchers distributed to the Class of 2017 and the Class of 218, there were invalid answers related to the internet network when learning online that needed to be improved. As for practicum assignments from lecturers, they can be done easily, and mastery of the application can be utilized in utilizing the features of the application used during the student practicum, which can be easily understood.

Based on the results of statistical tests in the Class of 2017 and the Class of 2018, there are different significant values in online practicum of $0.012 < 0.05$ and $0.000 < 0.05$ in face-to-face practicum. Research on both samples is normal, so there are differences in the effectiveness of online and face-to-face learning in the practicum carried out in the PTI Study Program at UIN Ar-Raniry. It means that H_0 is rejected and H_a is accepted.

4. Conclusions

Online learning of Graphic Design in UIN Ar-Raniry's PTI Study Program in the Covid-19 Situation has run smoothly. Students can adapt to the various applications used in the practical study of graphic design and the functions provided by these applications. I am also able to understand the material explained by the lecturer and complete the assignments given correctly. However, some students experience network difficulties when learning online.

Online and face-to-face learning is based on the significant value of the face-to-face practicum count of $0.000 < 0.05$ while the online practicum is $0.012 < 0.05$, which means H_0 is rejected, and H_a is accepted, and this shows that these two samples are normal. So, there are differences in the effectiveness of online and face-to-face learning in the Graphic Design practicum in the PTI study program at UIN Ar-Rany.

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