

# The Effectiveness Of Zoom Application As Online Learning Communication Media For STPK Matauli Students During The Covid-19 Pandemi

Futri Zahrah Handayani Manik<sup>1</sup>, Solihah Titin Sumanti<sup>2</sup>

<sup>1,2</sup>Department of Social Science, Universitas Islam Negeri Sumatera Utara, Medan

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## ABSTRACT

The purpose of this study is to determine how effective online learning is when the zoom application is used as a communication medium, how the online learning communication media for STPK Matauli students during the covid-19 pandemic, and how the zoom application is used as a learning communication medium for STPK Matauli students during the covid-19 pandemic. The Matauli Pandan High School of Fisheries and Marine Affairs conducted this study using a qualitative descriptive method. This study included 27 informants, all of whom were students from the 2019-2021 class. Observation, interviews, and document methods were used to collect data. The findings revealed: a) the effectiveness of online learning through the use of the Zoom application as a communication medium for students Matauli Pandan High School of Fisheries and Marine Affairs had 8 students who stated Effective and 19 students who stated Ineffective out of a total of 27 informants from the 2019, 2020, and 2021 classes. b) online learning communication media for STPK Matauli students during the academic year of 2019 Whatsapp, Zoom, and Google Meet are the most popular. According to research conducted in the 2019-2021 class with a total of 27 informants, 13 students used Zoom, 9 students used Whatsapp, and 7 students used Google Meet. c) Students at Matauli Pandan Fisheries and Marine College use Zoom for discussions, presentations, and guidance. According to the findings of research conducted in the 2019-2021 class with a total of 27 informants, 15 students used the Zoom application for discussions, 10 students used it for presentations, and 6 students used it for guidance.

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## ABSTRAK

Penelitian ini bertujuan untuk mengetahui bagaimana efektivitas pembelajaran online dengan menggunakan aplikasi zoom sebagai komunikasi media, bagaimana media komunikasi pembelajaran online pada mahasiswa STPK Matauli saat covid-19, dan bagaimana aplikasi zoom digunakan sebagai media komunikasi pembelajaran pada mahasiswa STPK Matauli saat pandemi covid-19. Penelitian ini menggunakan metode deskriptif kualitatif yang dilakukan di Sekolah Tinggi Perikanan dan Kelautan Matauli Pandan. Informan pada penelitian ini sebanyak 27 yaitu mahasiswa Angkatan 2019-2021. Teknik pengumpulan data yang digunakan adalah observasi, wawancara, dan metode dokumen. Hasil penelitian menunjukkan bahwa: a) efektivitas pembelajaran online dengan menggunakan aplikasi zoom sebagai media komunikasi pada mahasiswa Sekolah Tinggi Perikanan dan Kelautan Matauli Pandan terdapat 8 mahasiswa yang menyatakan Efektif dan 19 mahasiswa menyatakan Tidak Efektif dari jumlah keseluruhan informan sebanyak 27 informan yang berasal dari Angkatan 2019, 2020 dan 2021. b) media komunikasi pembelajaran online pada mahasiswa STPK Matauli saat covid-19 yang paling banyak digunakan adalah Whatsapp, Zoom dan Google Meet. Berdasarkan penelitian pada Angkatan 2019-2021 dengan total informan yang ditemukan 27 orang terdapat 13 mahasiswa menggunakan Zoom, 9 mahasiswa menggunakan Whatsapp, dan 7 mahasiswa menggunakan Google Meet. c) Mahasiswa Sekolah Tinggi Perikanan dan Kelautan Matauli Pandan menggunakan aplikasi Zoom untuk diskusi, presentasi dan bimbingan. Berdasarkan penelitian pada Angkatan 2019-2021 dengan jumlah 27 informan terdapat 15 mahasiswa menggunakan aplikasi zoom untuk berkreasi, 10 mahasiswa menggunakan aplikasi zoom untuk presentasi dan 6 mahasiswa menggunakan aplikasi zoom untuk bimbingan.

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**Corresponding Author:**

Futri Zahrah Handayani Manik,  
Department of Social Science  
Universitas Islam Negeri Sumatera Utara, Medan,  
Jalan Williem Iskandar Pasar V, Kota Medan, Sumatera Utara, Indonesia  
Email: futrizahra08@gmail.com

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## I. INTRODUCTION

The emergence of covid-19 in 2019 stunned the world (Corona Virus Desese - 2019). Corona viruses are a large virus family that can infect birds, mammals, and humans. Corona virus is zoonic, meaning it can be transmitted between animals and humans. According to the World Health Organization's official website (WHO). The corona virus first appeared and spread to humans in the city of Wuhan, China, at the end of December 2019. The emergence of covid-19 in 2019 stunned the world (Corona Virus Desese - 2019). The Covid-19 pandemic has spread throughout the world, and there have been many recorded positive cases of covid-19, recovered and died; the Covid-19 pandemic has changed all planned urban spatial structures and people's lives; the limitations of buildings and multifunctional spaces to serve as quarantine or isolation places require many places such as schools, guesthouses, and so on to be used as Covid-19 emergency hospitals.

The government's policies have had an impact on a variety of fields, particularly education, which must conduct online learning beginning Monday, March 16, 2020, and will be followed by other provinces. Given the corona virus, distance learning is a viable option for overcoming the difficulties associated with face-to-face instruction. In this case, technology is extremely beneficial for online learning. Development Technology is rapidly evolving, making it easier for us to communicate over long distances. To engage in online learning, despite the fact that it is less effective than offline learning. Online is an abbreviation for within the network, which is a term used instead of the word online in the context of internet-related activities.

The online learning system necessitates that all activities take place virtually, so schools and universities use online learning support applications, one of which is the Zoom cloud meeting application, which allows students to learn while using video calls that can be attended by many students in one class. Zoom is a video-based communication app. However, in order to use the application, you must connect to the internet. The Internet is a vast network of thousands of computers that connects millions of people worldwide. Its initial mission was to provide researchers with a way to access data from a variety of expensive computer hardware resources. However, because the internet has evolved into a very fast and effective communication platform, it has deviated significantly from its original mission. The Internet has grown to be such a large and powerful tool for information and communication.

The Zoom application, which is used as a supporting application in online learning, has a strong influence in the education sector; academic and non-academic activities are currently carried out using this application in support of government policies, specifically the physical distancing movement, which seeks to reduce physical activities with the potential to spread disease. Covid-19 . The Zoom application's ease of use, features that support its use, and the variety of services available in the application attract many users, including those at the "Matauli Fisheries and Marine High School, Central Tapanuli Regency." Based on this explanation, the problem formulation in this study is a) how effective is online learning using the Zoom application as a communication medium? b) How is the online learning communication media for STPK Matauli

students performing during the year 2019? And c) how STPK Matuli students used the Zoom application as a learning communication medium during the Covid-19 pandemic.

Definition of Communication. Communication, or "communication" in English, is derived from the Latin word "communicatus," which is derived from "communis," which means "same." 'Same' means 'same meaning' in this context. So communication can take place or last as long as there is a shared understanding of what is being said (Effendy, 2006:9).

A good way to describe communication, according to Harold D. Lasswell, is to answer the question "Who Says What In Which Channel To Whom With What Effect?" (Who says what with what media to whom and with what effect?) Wiryanto (2004): 6 The communication process begins when the communicator conveys a message that the communicant can receive and comprehend. Communication has the ability to shape one's attitude because attitudes can change as a result of the communication process, which affects one's actions.

Zoom Meeting Application for Online Learning, Online learning media is a learning tool or intermediary that is used to help the teaching and learning process that can be done remotely rather than face to face. The internet and technology are always used in online learning. The internet has become a demand as well as a need, serving as a medium, learning method, and source of knowledge that can be accessed at any time and from any location.

The Zoom Meeting application is a video-based learning media that was founded in 2011 by Eric Yuan, who works out of the Zoom application's headquarters in San Jose, California. This application is not only used for learning but can also be used for office, business, or other purposes. This free platform can be used by anyone with a 45-minute time limit and no time limit if our account is paid.

This zoom application can facilitate distance learning media because it can be used anywhere and at any time but requires an internet connection. Users in the Zoom Meeting application can communicate directly with anyone via video, which is why it is used on both PCs and mobile phones. This application can be accessed via websites, Mac OS, Windows, Linux, iOS, and Android, in addition to mobile phones and PCs. The Zoom application has many interesting features, such as a large room capacity that can accommodate a large number of meeting participants, good video quality, and presentation support.

## II. RESEARCH METHOD

This study employs descriptive qualitative research. Bogdan and Taylor define qualitative research as "a research procedure that produces descriptive data in the form of words or words from people or observed behavior" (Lexy J. Moleong, 2010: 4). This study was conducted in stages according to a predetermined schedule in order to obtain complete data. The data gathered during the interview and observation process will be presented in a descriptive format using simple words.

The Matauli Pandan Marine and Fisheries College, located on Jl. KI Hajar Dewantara No. 1 Pandan District, Central Tapanuli, North Sumatra Province, conducted this research. Informants in this study were Matauli Pandan School of Fisheries and Marine Affairs students from the 2019 class, 2020 class, and 2021 class, with a total of 9 people from three different majors, namely the Department of Fishing Technology, Aquaculture, and Social Sciences. Economy of Fisheries. The study's data collection methods included observation, interviews, and documentation.

The interactive model data analysis proposed by Miles and Huberman is used in this study's data analysis. Data analysis in this interactive analysis model begins when the data collection process takes place in the field, and data analysis is carried out in the form of cycles. Data reduction and conclusion drawing or verification are components of interactive analysis. Data reduction, in which the researcher conducts the selection or selection process, focuses attention or focuses, simplifies, and abstracts from all types of information that support the data obtained and recorded during the data collection process in the field. While drawing conclusions or verifying

results is an activity of interpreting data analysis and interpretation. Conclusions must be validated during the research process in order to be justified.

### III. RESULT AND DISCUSSION

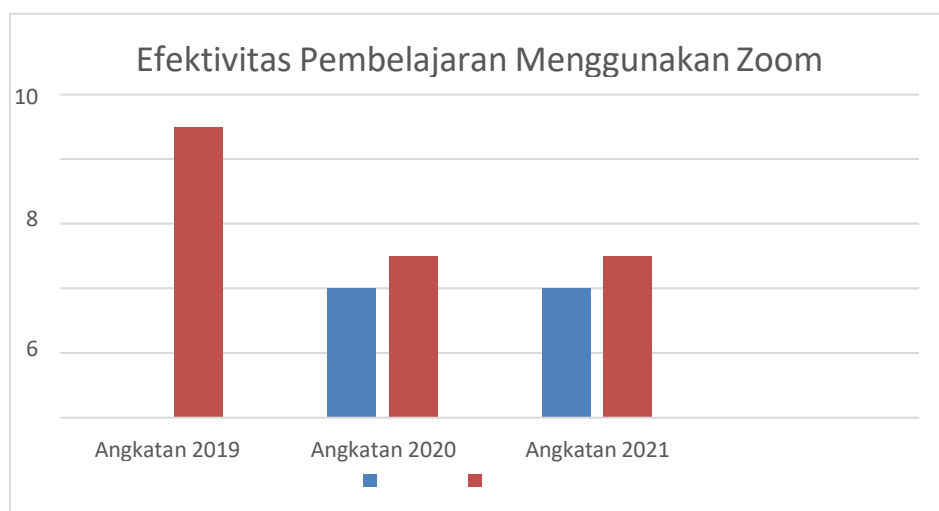
#### 1. Overview of Matauli Pandan High School of Fisheries and Marine Affairs

It is necessary to develop fisheries and marine education in the form of establishing a fishery and marine high school in order to improve the quality of reliable human resources for all development actors in the fisheries and marine sector. The establishment of this fishery and marine high school is based on the fisheries and marine RT/RW document, which has a potential development area. The establishment of a fishery and marine high school allows the younger generation in Central Tapanuli Regency and its surrounding areas to receive education in fisheries and marine affairs.

The Matauli School of Fisheries and Marine Affairs is here to build and improve the quality of human resources in fisheries and marine affairs in Central Tapanuli Regency. STPK Matauli (Matauli High School of Fisheries and Marine Affairs) has a vision: "To become a brilliant and dignified center of education and research in the field of fisheries and marine affairs in the Indonesian region by 2035." Meanwhile, the Matauli Fisheries and Marine High School (STPK Matauli) has the following missions: 1.) To provide high-quality education and training in fisheries and marine affairs in order to produce graduates with expertise in the sustainable management of marine resources, coral reefs, and mangroves. 2) Conduct research on the exploration and management of high-quality water resources in fisheries and marine environments, particularly the high seas, coral reefs, and mangroves. 3) Provide high-quality community service in the areas of marine water resources, coral reefs, and mangroves.

#### 2. The Effectiveness of Online Learning Using the Zoom Application as a Communication Media

During the COVID-19 pandemic, one of the video conferencing applications that is widely used for distance learning is Zoom. This application is thought to be very simple to use when working or studying remotely. The graph below depicts the results of research with interviews for the 2019, 2020, 2021 classes, which included as many as 9 people per class for a total of 27 people.

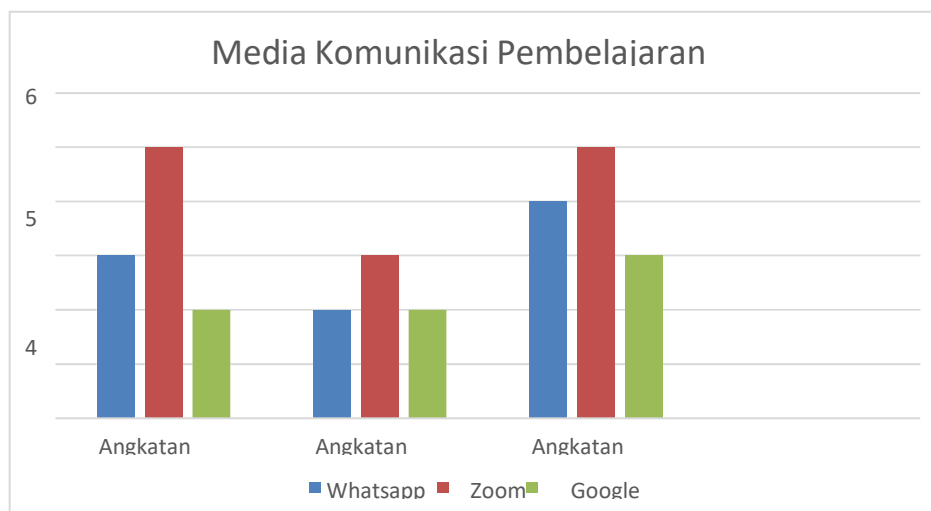


**Grafic. 1** The Effectiveness of Online Learning Using Zoom as a Learning Media in the Class of 2019, 2020 and 2020

According to Graph 1.1, there were 9 people in Class 2019 who stated that online learning using the Zoom application as a learning medium was ineffective, and there were no informants who stated Effective. In the Class of 2020, four informants stated that they were effective in using the Zoom application as a learning medium, while five informants stated that they were not effective. Meanwhile, four informants in the 2021 class said they were effective at using the Zoom application as a learning medium, while five said they were not. If all of the 2019-2021 batches with a total of 27 informants are added together, there are 8 informants who say Effective and 19 who say Ineffective. If it is calculated as a percentage, 100% of the informants in the 2019 batch said it was ineffective, while 60% said it was ineffective and 40% said it was effective in the 2020 and 2021 batches.

### 3. Online Learning Communication Media for STPK Matauli Students During Covid-19

STPK Matauli used various applications for online learning communication media such as the Zoom application, Whatsapp, Google Meet, and Google Class Rooms while learning during the Covid-19 period. The use of applications can aid lecturers and students in carrying out learning by allowing them to communicate and deliver learning materials. According to the research findings from the 2019 2020 and 2021 classes, there are various online learning communication media for STPK Matauli students during Covid-11, learning communication media at STPK Matauli during Covid-19 can be illustrated through the graph below.

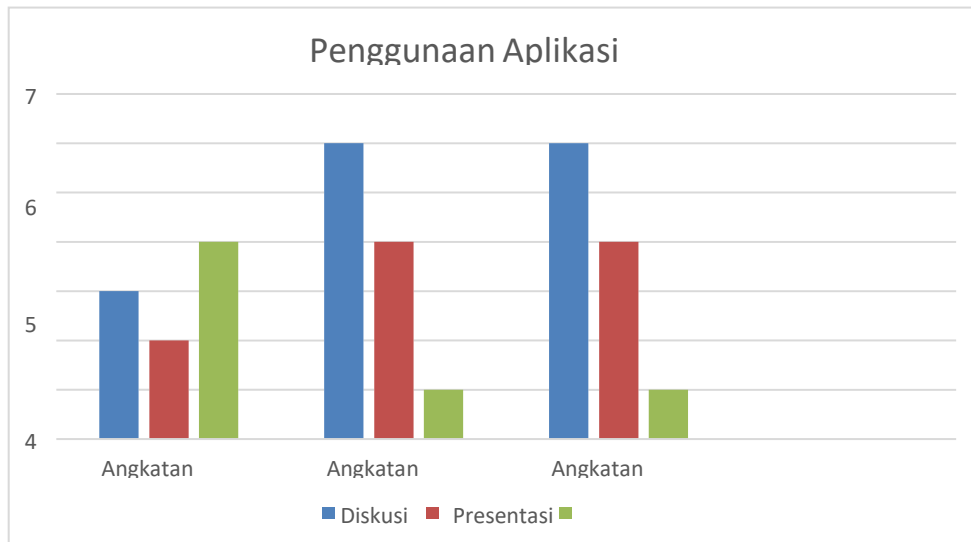


**Grafic. 2** Online Learning Communication Media for STPK Matauli Students During Covid-19

According to Graph 1.2 above, STPK Matauli students used various types of online learning communication media during Covid-19. Zoom, Whatsapp, and Google Meet are examples of online learning communication media. There were three informants in the Class of 2019 who used Whatsapp as a learning communication medium, five informants who used Zoom as a learning communication medium, and two informants who used Google Meet as a learning communication medium. There are two informants in the Class of 2020 who use Whatsapp as a learning communication medium, three informants who use Zoom as a learning communication medium, and two informants who use Google Meet as a learning communication medium. There are four informants in the 2021 class who use Whatsapp as a learning communication medium, five informants who use Zoom as a learning communication medium, and three informants who use Google Meet as a learning communication medium. If all informants in the 2019-2021 class are added together, there are 9 informants using Whatsapp, 13 informants using Zoom, and 7 people using Google Meet.

#### 4. Using the Zoom Application as a Learning Communication Media for STPK Matauli Students During Covid-19

During Covid-19, STPK Matauli students used the Zoom application as a learning communication medium for a variety of purposes, including learning, meetings, discussions, and guidance with lecturers.



**Chart 3.** Using the Zoom Application as a Learning Communication Media for STPK Matauli Students During Covid-19

According to graph 1.3 above, there were various uses of the Zoom application as a learning medium for STPK Matauli students during Covid-19, including those who used it for discussion, in discussions in this study were discussions with lecturers or with classmates, presentations in this study are when the lecturer explains the material or students explain the material either in groups or individually, and guidance in this study is the student.

According to the findings, four informants in the Class of 2019 used the Zoom application to provide guidance to academic supervisors, two informants used it to make presentations, and three students used it to discuss. Zoom is used by 6 students in the Class of 2020 and 2021 for discussion, 4 students for presentations, and 1 student for guidance. Based on a total of 27 informants from the 2019-2021 class, 15 students use the Zoom application for discussions, 10 students use the Zoom application for presentations, and 5 students use the Zoom application for guidance.

#### IV. CONCLUSION

Based on the findings of the preceding explanation, the researchers concluded that the effectiveness of online learning by using the Zoom application as a communication medium for students of the Matauli Pandan Fisheries and Marine College, there were 8 students who stated Effective and 19 students who stated Ineffective from a total of 27 informants from the Army. 2019, 2020, and 2021. While Whatsapp, Zoom, and Google Meet were the most widely used online learning communication media for STPK Matauli students during covid-19. According to research conducted in the 2019-2021 class with a total of 27 informants, 13 students used Zoom, 9 students used Whatsapp, and 7 students used Google Meet. In the meantime, students at Matauli Pandan Fisheries and Marine College use the Zoom application for discussions, presentations, and guidance. According to the findings of research conducted in the 2019-2021 class with a total of 27

informants, 15 students used the Zoom application for discussions, 10 students used it for presentations, and 6 students used it for guidance.

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