



Kominfo Digital Literacy Counseling in Cihampelas Village, West Bandung Regency, Indonesia

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Abstract

Disaster is a series of events that threaten and disrupt people's lives and livelihoods caused by both natural and/or non-natural factors as well as human factors, resulting in human casualties, environmental damage, property losses, and psychological impacts. In order to reduce the impact of those disasters, a Community Service Program (KKN) was held by providing community services regarding natural disaster mitigation training as an effort to minimize the impact of the risk of economic loss in the Citarum River watershed and digital literacy counseling to increase the distribution of literacy skills. digital community in Cihampelas Village, West Bandung Regency. The program is aimed at students of Public junior high school number 1 (SMPN 1) Cihampelas which is geographically close to the Citarum watershed. The method used is the provision of material on both topics to students at SMPN 1 Cihampelas. Based on the results of the activity, it shows that students are successful in understanding the material that has been delivered.

Keywords: Natural Disasters, Bening Saguling Foundation, Cihampelas Village, Digital Literacy, Mitigation, SMPN 1 Cihampelas

1. Introduction

Based on Law Number 24 of 2007 concerning Disaster Management, Disaster is a series of events that threaten and disrupt people's lives and livelihoods caused, both by natural factors and/or non-natural factors as well as human factors resulting in human casualties, environmental damage, loss of property, and psychological impact (Badan Nasional Penanggulangan Bencana, 2007). Furthermore, in the law, disasters can be defined as natural disasters, non-natural disasters, and social disasters. Natural disasters are disasters caused by events or series of events caused by nature, including earthquakes, tsunamis, volcanic eruptions, floods, droughts, hurricanes, and landslides. Non-natural disasters are disasters caused by non-natural events or series of events which include technological failures, modernization failures, epidemics, and epidemics.

Cihampelas Village is a village located in Cihampelas District, West Bandung Regency, West Java Province. This village is one of the villages located within the Citarum watershed (DAS). The village's location close to the Citarum river, which is said to be one of the most polluted water areas in the world, causes various kinds of problems. In the upstream part of the Citarum watershed, the problem is the accumulation of garbage and dirt in the Saguling reservoir which causes contamination of the reservoir water and soil erosion. Then, along the stream, sedimentation occurs on the riverbed which causes an increase in the potential for natural disasters such as flooding during the rainy season. Garbage buildup in rivers also creates problems for areas around river basins because it can cause air pollution to them. It has been recognized that people along the river have a culture of disposing of waste that is not treated first. The lack of understanding of the environment and the apathy of the people towards the condition of the river and waste has worsened the condition of the Citarum River.

To answer this, several excellent and high-quality program implementations from the West Java Provincial Government such as "Citarum Vibrates (2000-2003)" a program focused on pollution control, then "Citarum Bestari (2013)" with a program focus on alleviating water pollution problems as well as making Citarum River water fit for drinking in five years. Furthermore, there is a new program that was just released in 2018 and was pushed directly by President Joko Widodo namely "Citarum Harum". In essence, the entire program is carried out with the aim of restoring and restoring the Citarum watershed ecosystem so that it can be in good condition.

Then in other fields, digital transformation has changed every aspect of life, starting from basic things such as communication, teaching, and learning, to work. Digital transformation requires society to be able to adapt to all forms of change. On the other hand, the Government continues to make efforts to ensure that the community gets convenience in the adaptation process and continues to encourage equity and accelerate digital transformation. One of the Government's efforts through the Ministry of Communication and Informatics is to provide education to the public regarding digital literacy. Digital literacy has 4 main pillars, namely digital skills, digital safety, digital ethics, and digital culture. The Digital Literacy of the Indonesian people is currently measured using the Digital Literacy Index obtained based on a survey of 10,000 respondents in 514 Regencies/Cities. In 2021, Indonesia's digital literacy index is 3.49 on a scale of 1-5. There was a slight increase from the previous year, which was 0.03 points. Improvements occurred in the Digital Culture and Digital Skills pillars, but there were decreases in the Digital Ethics and Digital Safety Pillars. Based on this, new efforts are needed that are more effective in encouraging the increase and distribution of digital literacy skills in Indonesian society.

Based on these matters, and bearing in mind the collaboration between the government of the Republic of Indonesia and Padjadjaran University and the implementation of one of the Tri Dharma of Higher Education, namely Community Service, several community service activities have been carried out in Cihampelas Village, West Bandung Regency in the form of counseling on natural disaster mitigation in Citarum watershed and digital literacy. This activity can be carried out through collaboration between the Field Work Lecture - Community Service (KKN-PPM) group and parties from SMPN 1 Cihampelas and the Bening Saguling Foundation. The purpose of this research is to reduce the impact of natural disasters by conducting community service regarding natural disaster mitigation training. The use of this research is to be able to find out how environmental damage has occurred in the surrounding environment, increasing knowledge about literacy in digital media.

2. Literature Review

The definition of information and communication technology (ICT) in the twenty-first century has undergone considerable alteration. ICT is today understood to involve the generation, distribution, collection, administration, and real-time communication of information using digital technology. ICT has largely developed into an essential component and accepted norm of our way of life because these contemporary technologies are significantly raising the standard of living (Reddy et al., 2020).

Using digital electronic media, post-typographic types of text generation, distribution, and reception are becoming more prevalent in today's culture (Lankshear and Knobel, 2004). There is a vast diversity and availability of information (Koltay, 2011). Using more digital tools is the only way to solve problems. The new term for "educated" is digital (computer) literacy. The only way for educators and students to keep up with the development of digital societies is for both groups to reach a certain level of computer literacy (Allah and Ghulam, 2010). As technology advanced and society's reliance on computers increased, the concept of computer literacy changed over time. Computer literacy used to entail knowing how to program computers, back when they were almost as big as a room (Johnson et al., 2006).

3. Materials and Methods

3.1. Materials

Integrative KKN-PPM and Digital Literacy activities with the title "Natural Disaster Mitigation Training as an Effort to Minimize the Impact of Economic Loss Risk in the Citarum River Basin (DAS) West Bandung Regency" and "Digital Literacy Counseling for Communication and Information in Cihampelas Village, West Bandung Regency" were carried out in two places, namely in the Bening Saguling Foundation Environment and SMPN 1 Cihampelas Environment which is located in Cihampelas Village, Cihampelas District, West Bandung Regency, West Java Province. The reason for choosing this place is because SMPN 1 Cihampelas is located in a suburban area, where the influence of urban lifestyle (Bandung city) is very strong, especially the use of digital media (social media). Therefore, it is necessary to carry out socialization and digital literacy is very important, so that the use of digital media is used for positive and productive things. In addition, an online digital literacy socialization activity was carried out for the general public which was carried out on August 1, 2022, with the title "Digital Media Socialization: Towards a Disruptive Era Society" through the Zoom Meeting platform.

This activity was carried out through 4 stages namely, the debriefing stage which was carried out in a hybrid manner from 23 June 2022 to 2 July 2022, the preparation stage which was carried out offline from 4 July 2022 to 17 July 2022, the implementation stage which was carried out offline on 18 July 2022 to August 1, 2022, and the online post-implementation stage which is carried out from August 2 to 4, 2022. Overall the activities are carried out from June 23, 2022, to August 4, 2022, or approximately 42 days.

3.2. Methods

Overall, the following are details regarding the stages of implementing Integrative KKN-PPM Activities and Digital Literacy.

Table 1: Stages of implementing KKN-PPM activities

Time	Activity	executor	Target Audience	Place of execution	Target Achievement Results
Thursday, June 23, 2022	(Meeting) KKN debriefing, Group structure division	Field Supervisor and Student	Field Supervisor and Student	(online) Zoom Meetings	Explanation of the general description of the KKN activities to be carried out, creating the structure of the KKN group including the division of small groups, and determining the details of the tasks.
Saturday, July 2, 2022	Field Survey	Student	Student, Principal of SMPN 1 Cihampelas, Head of the Bening Saguling Foundation, Head of Cihampelas Village	Bening Saguling Foundation (BSF)	Introduce yourself to ask for permission to hold KKN activities, see the activities carried out by BSF, identify problems that exist in Cihampelas village related to the KKN topic.
Tuesday, July 5, 2022	(Meeting) Brainstorming, identifying problems, and formulating a list of activities	Student	Student	(online) Zoom Meetings	Determine activities to be carried out during KKN activities
Wednesday, July 6, 2022	(Meeting) Discussion of survey results, determination of work programs and technical implementation of KKN	Field Supervisor and Student	Field Supervisor and Student	(online) Zoom Meetings	Determination of work programs to be carried out during KKN activities, KKN activity budgets, and technical implementation of KKN activities
Thursday, July 14, 2022	Student mobilization to the location of the KKN implementation, visits to the Cihampelas Village Office and Cihampelas 1 Middle School	Student	Student, Principal of SMPN 1 Cihampelas, Head of the Bening Saguling Foundation, Head of Cihampelas Village	Cihampelas Village Office, SMPN 1 Cihampelas	Students arrive at the location of KKN activities, Welcome and Acceptance for Students to carry out KKN activities
Saturday, July 16, 2022	Preparation for KKN Activities at SMPN 1 Cihampelas	Students and the School	Students, School Parties, and New Students of SMPN 1 Cihampelas	Bening Saguling Foundation and SMPN 1 Cihampelas	Determination of prizes for winners, Determination of a series of activities, and negotiating regarding KKN activities at SMPN 1 Cihampelas
Sunday, July 17, 2022	Sharing Session with Students at the Bening Saguling Foundation	Field Students and Lecturers	Fostered/Educated Children at Bening Saguling Foundation	Bening Saguling Foundation	Sharing stories about the world of lectures and motivation for students at the Bening Saguling Foundation
Monday, July 18, 2022	(KKN Day-1) MPLS opening	Field Students and Lecturers	Students and Teachers from SMPN 1 Cihampelas	SMPN 1 Cihampelas	Activities regarding self- introduction to new students at SMPN 1 Cihampelas and delivery of technical implementation to new

Tuesday, July 19, 2022	(KKN Day-2) Preparation of Material Extension Activities	Students and Parties SMPN 1 Cihampelas	Students and Parties SMPN 1 Cihampelas	SMPN 1 Cihampelas	students Preparing classrooms for counseling activities and preparing prizes for activity winners The activity contains the provision of material on disaster mitigation in watersheds and regarding digital literacy (according to Kominfo's directions), Games, Pre-Test and Post-Test
Wednesday, July 20, 2022	(KKN Day-3) Counseling on the topic of KKN and Digital Literacy	Mahasiswa	New students of SMPN 1 Cihampelas	SMPN 1 Cihampelas	Closing of MPLS activities and awarding prizes to students with the highest scores on both materials In joint activities with the Bening Saguling Foundation, students help workers clean the river, and female students help teach at the Nature School
Thursday, July 21, 2022	(KKN Day 4) Closing of KKN activities at SMPN 1 Cihampelas	Students and the School	Students, School Parties, and New Students of SMPN 1 Cihampelas	SMPN 1 Cihampelas	Submission of additional activities from DPL and delivery of technical workmanship and collection of KKN reports
Friday, July 22, 2022	(KKN Day 5)	Students and the Alam Bening Saguling Foundation School	Students of the Saguling Foundation's Alam Bening School	Bening Saguling Foundation	Preparation of technical implementation and distribution of preparatory tasks for conducting digital literacy webinars
Tuesday, July 26, 2022	(Meeting) Coordination of additional activities and technical preparation of Reports	Field Supervisor and Student	Field Supervisor and Student	(online) Zoom Meetings	Creation of requirements for Webinars
Wednesday, July 27, 2022	(Meeting) Coordination regarding the preparation of additional activities	Student	Student	(online) Zoom Meeting	Checking the webinar preparation of each team
Saturday, July 30, 2022	Digital Literacy Webinar preparation work	Student	Student	(online) Whatsapp	Digital literacy material counseling to the general public
Sunday, July 31, 2022	Digital Literacy Webinar Preparation	Student	Student	(online) Zoom Meeting	Preparation of individual and sub-group KKN activity reports (Integrative KKN-PPM and Digital Literacy) and production of activity videos
Monday, August 1, 2022	(KKN Day-6) Digital Literacy Webinar	Field Supervisor and Student	General public	(online) Zoom Meeting	Students submit individual report assignments, sub-group reports (2 pieces), and videos of KKN activities
Monday, July 25, 2022 s.d. Thursday, August 4, 2022	Formulation of Reports, and Production of KKN Videos	Field Supervisor and Student	Student	(online)	
Thursday, August 4, 2022	Collection of KKN Activity Reports and Videos	Field Supervisor and Student	Field Supervisor and Student	(online)	

4. Results and Discussion

All In carrying out KKN activities, the author acts as the coordinator of the general KKN group in Cihampelas Village, West Bandung Regency. In this KKN activity, the author has led and directed fellow students in groups to make preparations and assist in preparing a series of activities. The main activities in this KKN are counseling on

natural disaster mitigation in the Citarum watershed and digital literacy counseling which is coaching for students at SMPN 1 Cihampelas. In carrying out the main activities which lasted for four days from July 18 2022 to July 21, 2022, ± 420 new students of SMPN 1 Cihampelas visited ± 420 students. The implementation of the KKN activities is divided into 2 sub-groups, namely the Integrative group which conducts disaster management counseling, and the literacy group which conducts digital literacy counseling.

The implementation of the main KKN activity was quite successful in attracting attention and enthusiasm from SMPN 1 Cihampelas and succeeded in providing additional insight for new students at SMPN 1 Cihampelas. Apart from that, in the results of the activities of the two sub-groups, each material obtained quite good assessment results in the integrative and literacy groups. Then in the socialization webinar activity, it has succeeded in attracting as many as 42 participants.

This Integrative KKN-PPM and Digital Literacy activity was welcomed by the officials of Cihampelas Village, Cihampelas 1 Middle School, Bening Saguling Foundation, and the surrounding community. According to the activity target, the existence of this counseling is helpful in adding new insights regarding appropriate digital media methods and mitigating natural disasters, and fostering concern for the surrounding environment. This digital literacy activity is not enough to do just once, so it will be easily forgotten. Digital literacy activities must be carried out continuously, and expanded not only to SMPN 1 Cihampelas students, but extended to reach all young people and the general public.

In addition to the main activities previously mentioned, there are several side activities during the KKN activities which are sharing activities with foster children from the Bening Saguling Foundation, conducting activities with the Bening Saguling Foundation to clean up the Citarum river, and teaching at a nature school with Bening Saguling Foundation.

5. Conclusion

Based on the results of the KKN activities that have been carried out, there are several conclusions, namely the first is that the main KKN activities, namely counseling activities at SMPN 1 Cihampelas have been carried out quite well, as seen from the results of the assessment in the activities which were quite satisfactory. Second, the side KKN activities with the Bening Saguling Foundation have been carried out well so students and students can find out how the damage is to the Citarum river. Third, the KKN activities as a whole have been carried out quite well by each sub-group although there is still a lot of room for some improvements to be made in its implementation.

Then there are some suggestions from the results of the Cihampelas Village KKN activities, namely to optimize the provision of the material provided to students and the community so that it is easier to understand in a short time, then to intensify information about the importance of basic knowledge about digital media and the importance of protecting the surrounding environment to prevent disasters from occurring naturally and reduce environmental pollution. Apart from that, for the future, the authors suggest that if there are other KKN groups who want to carry out activities in this village, they can target high school students and also the general public in Cihampelas Village.

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