Teacher Skill Improvement Training in Conducting Information Technology System-Based Learning and Communication in Vocational High Schools

M. Choerul Umam¹ C. Dyah Sulistyaningrum Indrawati² Patni Ninghardjanti³ Anton Subarno⁴ Winarno⁵
¹,²,³,⁴,⁵, Sebelas Maret University
mc_umam07@staff.uns.ac.id, ciciliadyah@staff.uns.ac.id, ning@staff.uns.ac.id, antonsubarno@fkip.uns.ac.id, winarnoq998@staff.uns.ac.id

Abstract

Teachers at vocational schools are facilitators in implementing an effective learning process. The learning process is inextricably linked to the media, methods and learning outcomes. In this case, the media play an important role. As we know, online learning platforms are very diverse, but not all of these platforms can be used effectively to create meaningful, interesting and interactive learning in office administration. The objectives of Training to Improve Teacher Skills in Conducting Information Technology Based Learning and Communication in Vocational Schools are 1) Improve Teacher Skills in Development of Innovative Learning Models 2) Improve Teacher Skills in Development of Learning Management System (LMS) to become Professional and Competent Teachers who design learning media and implement them in learning activities. 3) Improving teachers' communication skills in learning through live virtual meetings and live chat through Whatsapp desktop application in vocational schools. The results of the training were: 1) Increasing the ability of teachers to develop innovative learning models by 80%, 2) Increasing the ability to develop a Znaplink-based Learning Management System (LMS) by 86%, and 3) The Improving the ability of teachers to communicate while learning through live virtual meetings and live chats with Whatsapp desktop application has reached 88%.

Keywords: Innovative learning, Learning Management System, Communication
1. Introduction

Issues in the world of education are top priorities that need to be solved, one of which is the issue of education quality in Indonesia. The quality of education is currently being challenged by the outbreak of the Covid-19 virus. The outbreak of Covid-19 has become a global pandemic, the spread of which is of such concern that the government must therefore work together to reduce the rate of spread of the Covid-19 virus by issuing guidelines for all citizens to practice social distancing or their need to keep distance. In order for the community to use this policy to reduce activity outside the home through gatherings or in groups, it needs to be halted for a moment now and replaced with activity inside their respective homes. Based on the Circular No. 4 of 2020 on the implementation of education policies during the emergency phase of the spread of the virus, the Minister of Education and Culture appealed to all educational institutions not to carry out the teaching and learning process directly or face to face, but to do it indirectly or to do remotely. With this circular, all educational institutions have to change the previous learning process online or networked (online).

The Covid-19 pandemic is a multidimensional problem facing the world. This has also impacted the education sector, leading to a deterioration in learning quality for students (Sahu, 2020). This pandemic emergency situation requires the learning system to be replaced by online learning in order for the learning process to continue (Sintema, 2020), this is significantly changing learning patterns that require teachers and education developers to provide learning materials and engage students directly through digital tools from the to teach remotely (United Nations, 2020).

The development of technology has become a potential in various fields, especially in education, and therefore needs to be approached in a positive and adaptive way to respond to the challenges of learning in the 21st century, which is full of complexity. (Aziz Hussin, 2018); Gamar et al., 2018). The use of technology in education has become a very important topic and is often discussed in different organizations (Orgaz et al., 2018; Traxler, 2018), The existence of technology for the world of education is a means that can be used as a medium to deliver learning programs both one-way and interactively (Husaini, 2014). The use of technology has enabled the emergence of distance learning and encouraged greater innovation in the development of learning methods both inside and outside the classroom (Almeida & Simoes, 2019).

The criteria for a teacher under PP No. 19 of 2005 relating to the National Educational Standards are the criteria for pre-service educators and physical and mental aptitude. Educators determine each teacher's qualification as a professional teacher who supports the successful achievement of educational goals. Teachers at vocational schools are facilitators in implementing an effective learning process. The learning process is inextricably linked to the media, methods and learning outcomes. In this case, the media play an important role. As we know, online learning platforms are very diverse, but not all of these platforms can be used effectively to create meaningful, interesting and interactive learning in office administration. The Community Partnership Program (PKM) is a research implementation of a service team to increase technological literacy in learning to train vocational school teachers in technology integration and ways to foster student creativity.
The objectives of the training to improve teacher skills in conducting information technology system-based learning and communication in Vocational Schools are: 1) Improving teacher skills in developing innovative learning models 2) Improving teacher skills in developing a Learning Management System (LMS) to lead to teachers who are professional and proficient in designing learning media and applying them in learning activities 3) Improving teachers' communication skills in learning through virtual live meetings and live chat through the Whatsapp Desktop application at vocational schools.

The result of this community partnership program activity is that teachers can improve skills in implementing innovative learning models, create a Znaplink-based Learning Management System (LMS), and utilize Whatsapp Desktop in communicating during the learning process so as to improve teacher performance and create professional teachers.

2. Methods

The Community Service Program in the form of training to improve teacher skills in conducting learning and communication based on information technology systems at Vocational Schools, this activity was held on June 18, 2022 offline at Building A FKIP with 3 speakers. The first speaker Anton Subarno, S.Pd., M.Pd., Ph.D with material introduction to learning using innovative models, while the second speaker Muhammad Choerul Umam, S.PdI., M. Pd with material on Practice of Making a Learning Management System (LMS) based on Znaplink. The third speaker was Winarno, S.Kom., M.Pd. with material on the use of WhatsApp desktop in learning communication. The syntax or stages in its service activities are as follows: 1) Socialization through the MGMP forum by explaining the purpose of training to improve teacher skills in conducting learning and communication based on information technology systems during the Covid-19 pandemic at Vocational Schools in Surakarta City, 2) Training on improving teacher skills in conducting learning and communication based on information technology systems during the Covid-19 pandemic at Vocational Schools. 3) Evaluation.

3. Results and Discussion

Training on improving teacher skills in conducting learning and communication based on information technology systems in Vocational Schools aims to improve teacher skills in developing innovative learning models, Improve teacher skills in developing a Znaplink-based Learning Management System (LMS) to lead to teachers who are professional and proficient in designing learning media and applying them in learning activities, Improving skills communicate teachers in learning through virtual live meetings and live chat with the Whatsapp Desktop application at vocational schools.
Based on figure 1 regarding the ability to develop innovative learning models, there was a very high increase, at the time before training it showed 40% and after training it increased to 80%. This has increased the ability to develop innovative learning models by 40%.

Based on figure 2 regarding the ability to develop a Znaplink-based Learning Management System (LMS), it was seen that there was a very high increase, at the time before training it showed 30% and after training it increased to 86%. This has increased the ability to develop a Znaplink-based Learning Management System (LMS) by 56%.
Figure 3: Teacher’s ability to communicate in learning through virtual live meetings and live chat with the Whatsapp Desktop application

Based on figure 3 regarding the ability to communicate with teachers in learning through virtual live meetings and live chat with the Whatsapp Desktop application, there was a very high increase, at the time before the training showed 35% and after the training increased to 88%. This has increased the ability to communicate with teachers in learning through virtual live meetings and live chat with the Whatsapp Desktop application by 53 %.

4. Conclusion

Training on improving teacher skills in conducting information technology system-based learning and communication during the Covid-19 pandemic at the Surakarta Ex-Residency Vocational School aims to improve teacher skills in developing innovative learning models, improve teacher skills in developing a Znaplink-based Learning Management System (LMS) to lead to teachers who are professional and proficient in designing learning media and applying them in activities learning, improving teachers’ communication skills in learning through virtual live meetings and live chat with the Whatsapp Desktop application at Vocational Schools. With the current Covid-19 outbreak, it is important to have a distance learning media that students can use to help improve their abilities and understanding of the material presented by teachers. As the development of information technology accelerates, it is very necessary to have the ability to create an Information Technology-based learning media that can be packaged into an LMS. Teachers who are able to apply creative, varied and more focused learning methods in the development of student activities will make students more active in the learning process so that the material presented by the teacher will be easily understood.

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6. References


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