

Empowering Elementary School Teachers through Technology-Based Learning: A Community Service Initiative at SD Negeri Wono Sari

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Abstrak

Inisiatif pengabdian kepada masyarakat ini berupaya untuk meningkatkan mutu pendidikan di SD Negeri Wono Sari dengan memberikan bimbingan materi pembelajaran berbasis teknologi kepada guru sekolah dasar. Upaya yang dilakukan melalui sesi perkuliahan difokuskan pada pemberdayaan instruktur dengan pengetahuan dan kemampuan untuk mengintegrasikan teknologi secara efektif ke dalam metode pengajaran mereka. Sesi ini mencakup ceramah tentang dasar-dasar perangkat keras dan perangkat lunak, ide-ide untuk integrasi kurikulum, dan manfaat umum penerapan teknologi di kelas. Metodologinya mengadopsi pendekatan berbasis ceramah, menekankan pemahaman teoritis dan penerapan praktis teknologi dalam pengajaran. Efektivitas inisiatif ini terlihat jelas dari umpan balik positif yang diperoleh dari para guru yang berpartisipasi, yang menyatakan keyakinan dan motivasi yang lebih besar dalam mengadopsi teknologi. Sesi lokakarya langsung memainkan peran penting dalam menunjukkan manfaat langsung dari penggabungan teknologi ke dalam teknik pengajaran mereka. Pencapaian yang baik dari proyek pengabdian masyarakat ini menyoroti potensi penerapannya yang diperluas di lembaga pendidikan lainnya. Proyek ini tidak hanya memberdayakan instruktur di SD Negeri Wono Sari tetapi juga berkontribusi dalam melatih para pendidik untuk menangani tantangan dan peluang yang diberikan oleh dunia digital. Abstrak ini menangkap aspek-aspek penting dan faktor keberhasilan upaya pengabdian masyarakat, membuka jalan untuk direplikasi dalam lingkungan pendidikan serupa.

Kata kunci: *Pengabdian Kepada Masyarakat, Media Pembelajaran Berbasis Teknologi, Guru SD*

Abstract

This community service initiative sought to increase the quality of education at SD Negeri Wono Sari by offering guidance on technology-based learning material for elementary school teachers. The effort, done through lecture sessions, focused on empowering instructors with the knowledge and abilities to integrate technology effectively into their teaching methods.

The session includes lectures on hardware and software basics, ideas for curriculum integration, and the general benefits of adopting technology in the classroom. The methodology adopted a lecture-based approach, stressing theoretical comprehension and practical applications of technology in teaching. The initiative's effectiveness was obvious in the positive feedback obtained from participating teachers, who expressed greater confidence and motivation in adopting technology. The hands-on workshop sessions played a crucial role in displaying the immediate benefits of incorporating technology into their teaching techniques. The favorable achievements of this community service project highlight its potential for expanded application in other educational institutions. The project not only empowered instructors at SD Negeri Wono Sari but also contributed to training educators to handle the challenges and opportunities given by the digital world. The abstract captures the important aspects and success factors of the community service effort, opening the road for its replication in similar educational settings.

Keywords: *Community Service, Technology-Based Learning Media, Elementary School Teachers*

INTRODUCTION

Education is the essential foundation in the growth of a nation, and the significance of teachers in the educational process cannot be overlooked. In the era of rapidly increasing information technology, the use of technology-based learning media has become a need to promote the efficacy and efficiency of learning (Prayuda et al., 2023). Through this community service, we focus on SD Negeri Wono Sari as the implementation location. This school is in the spotlight because it has a key role in forming the character and knowledge of pupils.

On January 10 2024, we aim to perform outreach activities using the lecture technique to teachers at Wono Sari State Elementary School. This extension intends to improve instructors' understanding and skills in integrating technology in the learning process. By employing the lecture style, we seek to deliver knowledge effectively and create an interactive environment (May et al., 2017; Prayuda et al., 2022). The title of this community service is "Technology-Based Learning Media Extension for Teachers at Wono Sari State Elementary School". Through this activity, it is intended that teachers will comprehend the benefits of using technology to help the learning process and can implement it well in the classroom.

The importance of providing awareness to educators regarding the use of technology-based learning media at Wono Sari State Elementary School not only has an impact on increasing the quality of learning, but also drives innovation in the field of education. Thus, we feel that this activity can make a positive contribution to the development of education at the primary school level (Sweet et al., 2020). In this context, various questions arise that need to be answered in order to direct the course of this community service. First, to what extent is the understanding and skills of teachers at SD Negeri Wono Sari about the use of technology-based learning media? Second, what hurdles do instructors confront in trying to integrate technology in learning? And finally, how might extension approaches be useful in

developing instructors' understanding and skills about the use of technology-based learning media?

With these questions as a guide, our community activity aims first, to strengthen the understanding and skills of teachers at Wono Sari State Elementary School in applying technology-based learning media. Second, identify and solve hurdles that teachers may experience in integrating technology in the learning process. And finally, presenting effective counseling approaches to ensure a considerable rise in teacher understanding and skills about the use of technology-based learning media. With this background, strategic and implementation stages will be outlined further in the following chapters to ensure that the goals of community service may be fulfilled optimally.

METHOD

This community activity, named "Education on Technology-Based Learning Media for Teachers at Wono Sari State Elementary School", is an initiative to promote awareness and implementation of technology in learning in the educational environment. With the service location at SD Negeri Wono Sari on January 10 2024, the method that will be employed is lecture, which will provide insight and information to the teachers.

The first stage in implementing this service is identifying the demands and level of awareness of teachers regarding technology-based learning media. Through initial surveys, interviews and observations, it is believed that a comprehensive understanding of the needs that must be satisfied can be created. Furthermore, outreach materials will be produced taking into account the outcomes of this identification, in language that is easy to grasp and applicable.

The extension will be carried out through lectures on a fixed date, namely January 10 2024. The material presented must be informative, interesting and able to arouse the interest of teachers. In addition, question and answer sessions and discussions will be conducted to promote optimal knowledge. After counseling, the next phase is a practical session, where teachers can immediately try employing technology-based learning tools. With direct involvement, it is believed that teachers can overcome possible impediments or challenges in using this technology.

Evaluation and feedback will be a key aspect of this service. Feedback from teachers will provide crucial insight for future enhancements and modifications. Follow-up will also be carried out through further support and the establishment of communication venues for information exchange. This service does not end with counseling sessions and seminars, but will continue to be monitored in the long term to see its impact on the use of technology in learning. Periodic evaluations will be conducted out to ensure the sustainability and effectiveness of these initiatives in improving the quality of learning at SD Negeri Wono Sari.

RESULT AND DISCUSSION

This community activity, with the title "Instruction on Technology-Based Learning Media for Teachers at Wono Sari State Elementary School", indicates a substantial positive influence on boosting understanding and implementation of technology in the learning process in the school setting. The outcomes of this activity show an increase in instructors'

knowledge and skills in using technology-based learning medium. Through identifying early demands, community service succeeded in detailing the weaknesses and needs of teachers about learning technology. The extension materials that are generated are then designed in such a way that they meet your demands and are easy to understand. Question and answer sessions and conversations during extension provide room for teachers to exchange experiences and insights, providing a collaborative climate that enhances understanding of learning technology principles.



Figure1. Socialization of the community service

The implementation of counseling and practical workshops on January 10 2024, resulted in active engagement from teachers. The practical session allows pupils to directly integrate the technology they have learnt, confirming the applicability and effectiveness of technology-based learning media in the learning setting at SD Negeri Wono Sari. In evaluation and feedback, the majority of teachers claimed a gain in their understanding and skills in using learning technology. The recapitulation results suggest that as many as 95% of teachers experienced increased understanding, with 90% of them successfully applying this technology in their learning activities.

Follow-up actions, in the form of further support and the formation of a communication forum, create a strong foundation for maintaining and extending the use of learning technology in the future. The sustainability of this service will continue to be checked through regular evaluations to ensure its good impact persists. Overall, this community activity achieved its major purpose, namely boosting the understanding and application of technology-based learning medium among Wono Sari State Elementary School teachers. With this excellent outcome, it is believed that it can make a sustainable contribution to increasing the quality of learning at the school.



Figure 2. Pre-condition teaching before community service

The excellent outcomes of technology-based learning media outreach activities for Wono Sari State Elementary School teachers reflect the success of this community service in making a beneficial contribution to the quality of learning at the elementary level. Increasing understanding and application of technology in the learning process is a key first step in facing the era of digitalization of education. Through the lecture approach which was held on January 10 2024, teachers not only gained a theoretical grasp of the value of technology in education, but also had the opportunity to personally interact and try technological applications that were relevant to their requirements. The adoption of this lecture approach not only gives knowledge, but also increases awareness and motivation of teachers to be actively involved in employing learning technologies.

Concrete actions implemented in this counseling include a fundamental grasp of hardware and software that may be utilized in learning, a description of how to integrate technology-based learning material in the curriculum, as well as a discussion of its benefits to the teaching and learning process. Collecting feedback and ratings from teachers after implementing the extension provides a deeper picture of the success of this program. From the responses, it was observed that many teachers noticed favorable improvements in their viewpoints on the use of technology in learning. Some experienced enhanced confidence in employing technology in the classroom, while others sensed increased student enthusiasm and interest in the subject matter.

Apart from that, practical workshop activities also confirm their usefulness in offering a deeper understanding. Teachers can instantly attempt and practice utilizing the tools and apps that have been provided in the lecture. This provides an opportunity for children to overcome any initial fear or discomfort with technology, as well as letting them realize the immediate benefits of using it in everyday learning. This achievement can be utilized as a basis for launching similar outreach activities in other schools. Spreading the benefits of employing technology in the learning process can have a significant impact not only on instructors and students at the elementary level, but also on educational advancement as a whole. These steps are in line with broader efforts to prepare education to address the problems and opportunities of today's digital era.

CONCLUSION

In conclusion, the community service effort focusing on providing technology-based learning media guidance for teachers at SD Negeri Wono Sari has achieved great benefits. The participation successfully helped to improve the quality of education at the elementary level by promoting a deeper understanding and application of technology in the teaching and learning process. The effectiveness of this project is obvious in the improved awareness and motivation among the participating instructors to actively integrate technology into their classrooms. The technique of providing the subject through lectures was effective, bringing not just theoretical knowledge but also practical insights into key technology applications. The tangible actions taken, such as introducing the principles of hardware and software, incorporating technology into the curriculum, and outlining its benefits, gave a thorough understanding for the teachers.

Feedback and ratings from the teachers further underscored the good impact of the curriculum. Many felt a renewed confidence in integrating technology in their teaching, while others noted increased motivation and engagement from pupils. The hands-on workshop sessions played a vital role in relieving early apprehensions and displaying the immediate benefits of adopting technology into daily teaching methods. The success obtained in this community service endeavor provides as a platform for spreading similar counseling programs to other schools. Disseminating the benefits of employing technology in learning can have a good impact not only on instructors and students at the basic level but also on the larger advancement of education. These activities align with the broader goal of preparing education to face the problems and opportunities of the digital era.

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