

The Urgency of Digital Competence in Encouraging Innovative Teaching in the Classroom for Enhancing Education Quality

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ABSTRACT

In today's world where technology is changing everything, knowing how to use digital tools is very important for making classroom learning better. This article talks about why it is important for teachers to learn digital skills. This will help them come up with new ways to teach that fit what students need in the 21st century. This research uses a qualitative approach by looking at books and articles to collect information from different sources. The research shows that when teachers know how to use digital tools, they can use technology in creative ways in their lessons. This makes learning more interactive, personalized, and focused on the student. By using different digital tools and platforms, teachers can teach more effectively and give students access to learning materials from all over the world. Helping teachers get better at using digital tools should be part of a larger plan to make education better. This study shows that teachers who are good with technology are very important for creating new, effective, and lasting ways of learning.

Keyword: Digital Competence; Teaching Innovation; Quality of Education

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1. INTRODUCTION

Education is important for a country's growth, and teachers greatly affect how well learning happens (Yunita, 2022). Because of the Industrial Revolution 4.0, where using digital tools is becoming common, it is important for teachers to get better at using technology. This also shows that using digital technology in Indonesian classrooms is still difficult. So, teachers need to keep improving their digital skills so they can handle the challenges of digital learning. Teachers need to have and use digital skills because these skills are important for helping students learn in schools (Syahid et al., 2022).

Right now, we are still behind in adapting to education 4.0. Teachers still need to improve their skills and use of digital technology in classrooms (Soenarto et al., 2022). We need data and information about teachers' digital skills. Research is important to get this data, find out why there is a problem, and help teachers improve their digital skills. Using digital technology is very important for making learning better (Dwi et al., 2022). Teachers who are good with digital technology improve their performance by 98.5% (Ngongo et al., 2023). Teachers need to be good at using digital tools for teaching so they can improve their skills for 21st-century learning (Silvester et al., 2022).

Teachers, as professionals, should have the right qualifications. They also need to be skilled in many areas to do their jobs well, meeting professional standards. The quality of a teacher helps make learning better. Teachers should be able to get students excited about learning and use resources wisely. They should also help students think creatively and grow emotionally in all areas (Ardiansyah & Trihantoyo, 2023).

Teachers who are responsible for educating children need to be ready for what may come. Teachers need to be good with technology so they can work well with students who have different personalities. The aim is to make teaching and learning better because teachers can use technology to teach in more creative way (Ahmadi, 2017). The difference in how teachers and students use technology is a problem that needs to be fixed quickly. Students are young and grew up with technology, so they are used to using the internet every day. They have always known fast information and digital ways of talking to each other. They use technology

to talk and learn. The idea of people who are naturally good with technology is being talked about more and more in research (Prawiradilaga, 2019).

Today, teachers need 5 skills that relate to the digital world: They must know about digital tools (how to get to them, judge them, use them, take part with them, and use them safely and ethically, including using digital technology for learning). They need to be able to communicate digitally (through email, social media, video calls, and chat apps). They must be able to use digital technology to grade student work. And they need to be creative and come up with new digital ideas (Laar et al., 2019).

Digital competency is the skill of using technology. It includes using digital media, ways to communicate, and networks. It also includes judging information, creating information, and using technology wisely. Teachers' Digital Competence (TDC) shows digital competency abilities by: how they feel about using digital tools, how they use digital devices, finding information, keeping digital information safe, working together online using digital communication, and fixing digital problems (Caena & Redecker, 2019).

2. RESEARCH METHOD

This research uses a qualitative method and library research to gather information from different reading materials (Sugiyono, 2019). The data for this research comes from books and articles about handling conflict in schools, to help graduates succeed. The researcher will study different sources to learn about conflict management in schools, to make sure graduates are successful.

This research looks at existing writings on digital skills and improving education. It uses books and articles from education experts and other researchers who say digital skills are important. To analyze the information, the research will look at different sources about how to handle disagreements in schools. This is to make sure students are successful after they graduate. The goal is for this research to help people understand these ideas and how they can be used in education, especially in Indonesia.

3. RESULTS AND DISCUSSION

As we deal with the changes of the 21st century, especially the growth of technology, it definitely affects how learning is managed and what students are like. So, as teachers, we must improve our main skills or competency standards so we don't get outdated and can meet our students' needs. To succeed in this digital age, it's vital to build skills in thinking, dealing with others, and using technology (Radinal, 2021).

Viktor & Hakim (2021) say that teachers in the 21st century need and build five skills: teaching skills, business skills, global awareness, future planning, and advising skills. Digital skill is the ability to learn using the internet as a basic skill. The Internet of Things (IoT) is now part of everyone's life and has also been used in education to make it more creative and newer. For instance, e-learning or online learning, digital libraries, and other things are being used (Nasrul et al., 2022).

IoT can be used in learning on different devices like phones, tablets, web browsers, and social media. Teachers and students can use the internet to find information and knowledge on online devices (Megawati & Lawi, 2021). So, teachers need to know how to use different IoT tools for education and teaching. This is because using internet technology is now a clear trend in education and learning around the world (Ismail & Hadiana, 2020).

Teachers who can use technology in new and useful ways have a big impact on new ideas in education. For instance, when teachers use learning videos, interactive quizzes like Kahoot, or science simulation apps, students can become much more interested in learning. Because of this, learning is not boring anymore, but becomes more relevant and fun (Yuliana & Rahmat, 2022). Teachers who are good with technology can find new ways to teach that weren't possible with old-fashioned methods.

Digital competence is the ability to use new teaching methods in the classroom to make education better. Teachers need to be able to teach using technology that relates to what students are doing. This is because technology is now used in social, cultural, economic, and political activities online (Suheri et al., 2020). Things that used to be done in person can now be done online through blogs, websites, and social media. This affects people who need services or want to buy something because they can now do it online (Makori, 2021). This has created a chance to use technology online.

Also, being good with technology helps teachers better meet the different needs of students in the classroom. Every student learns in their own way. Using technology, teachers can change the materials and how they teach to match each student's understanding and interests. For instance, teachers can use online learning sites to give extra help to students who are struggling. They can also give more challenging work to students who learn faster (Wahyuni, 2023). This will directly improve the quality of education for everyone.

Being good with technology also lets teachers find many learning materials from around the world. Teachers can find journals, how-to videos, discussion groups for professionals, and even online classes from other countries. This helps teachers learn more and get better at teaching. This also makes teaching better in the classroom (Rahmawati & Hidayat, 2022). Digital skills also help teachers keep learning and improving in their careers.

Mufidah (2019) says that teachers need to be good at teaching. This way, we can help students become skilled and successful. Also, we need to keep up with the changes happening in the world. Teachers should help students develop skills in critical thinking, creativity, communication, and teamwork, so they can solve problems in real life. Teachers can also get students to learn outside of school using online education and social media (Wati & Kamila, 2019). As teachers, we need to stay updated and be ready for changes.

4. CONCLUSION

Being good with digital tools is very important for coming up with new ways to teach in the classroom, which directly makes education better. Teachers who are skilled with technology can use it well and also make learning more interesting, flexible, and useful for today's students. As technology gets better and students learn in new ways, it's important for teachers to know how to use digital tools so they can teach in an interactive way, help all students learn, and use learning materials from all over the world. But improving digital skills also needs to include understanding how to use technology safely and having ongoing training and equal access to tools. So, helping teachers get better with digital tools is not just something they need as individuals, but it's also a key way to make sure education is good and can help create successful generations who are ready for what's ahead.

REFERENCES

- Ahmadi, F. (2017). *Guru SD di era digital (Pendekatan, media, inovasi)*. Pilar Nusantara.
- Ardiansyah, D., & Trihantoyo, S. (2023). Peningkatan kompetensi digital guru dalam mewujudkan inovasi pembelajaran di era revolusi industri 4.0. *Jurnal Inspirasi Manajemen Pendidikan*, 10(4), 757–770.
- Caena, F., & Redecker, C. (2019). Aligning teacher competence frameworks to 21st century challenges: The case for the European digital competence framework for educators. *European Journal of Education*, 54(3), 356–369.
- Dwi, M. A., Afandi, A., & Astuti, I. (2022). Kompetensi digital guru dalam meningkatkan minat belajar siswa MK di Kabupaten Sekadau. *Akademika*, 12(1), 1–11.
- Ismail, S., & Hadiana, E. (2020). Kompetensi guru zaman now dalam menghadapi tantangan di era revolusi industri 4.0. *Attulab: Islamic Religion Teaching and Learning Journal*, 5(2), 198–209.
- Laar, E., Deursen, A. J., & Haan, J. (2019). The relation between 21st-century skills and digital skills: A systematic literature review. *Computers in Human Behavior*, 99, 45–58.
- Makori, E. O. (2021). Promoting innovation and application of internet of things in academic and research information organizations. *Library Review*, 66(8/9), 655–678. <https://doi.org/10.1108/LR->
- Megawati, S., & Lawi, A. (2021). Pengembangan sistem teknologi internet of things yang perlu dikembangkan negara Indonesia. *JIEET (Journal of Information Engineering and Educational Technology)*, 1(5), 19–26.
- Mufidah, L. I. (2019). Tantangan profesionalisme guru pada era globalisasi. *JURNAL LENTERA: Kajian Keagamaan, Keilmuan dan Teknologi*, 18(2), 175–186.
- Nasrul, N., Hasnah, S., & Dzakiah, D. (2022). Guru di era society 5.0. *Prosiding Kajian Islam dan Integrasi Ilmu di Era Society (KIIIES)*, 5(0), 116–120.
- Ngongo, A., Talok, D., Sia Niha, S., Manafe, A. H., & Kaluge, H. (2023). Pengaruh sarana pembelajaran digital dan kompetensi digital guru terhadap kinerja guru SMK Negeri 2 Kupang dengan motivasi berprestasi sebagai variabel intervening. *Jurnal Manajemen Pendidikan dan Ilmu Sosial*, 4(1), 231–245.
- Prawiradilaga, D. S. (2019). *Mozaik teknologi pendidikan e-learning*. Kencana Prenadamedia Group.
- Radinal, W. (2021). Pengembangan kompetensi tenaga pendidik di era disrupsi. *Al-Fatih*, 1(1), 9–22.
- Rahmawati, N., & Hidayat, F. (2022). Pengembangan profesionalisme guru melalui literasi dan kompetensi digital. *Jurnal Pendidikan dan Teknologi Informasi*, 6(3), 101–110.
- Silvester, S., Purnasari, P. D., Aurelly, B. T., & Gunawan, R. (2022). Analisis kemampuan guru penggerak pada jenjang sekolah dasar di wilayah perbatasan dalam perspektif literasi teknologi digital. *Sebatik: Jurnal Pendidikan*, 26(2), 412–419.
- Soenarto, S., Sugito, S., Suyanta, S., Siswantoyo, S., & Marwanti, M. (2022). Vocational and senior high school professional teachers in Industry 4.0. *Jurnal Cakrawala Pendidikan*, 39(3), 655–665.
- Sugiyono. (2019). *Metode penelitian kuantitatif: Konsep dasar metode penelitian kuantitatif*. Alfabes
- Suheri, A., Rosmawiah, E., & Wisman, Y. (2020). Guru profesional di era digital. *Jurnal Ilmiah Kanderang Tingang*, 11(2), 278–291.
- Syahid, A. A., Hernawan, A. H., & Dewi, L. (2022). Analisis kompetensi digital guru sekolah dasar. *Jurnal Basicedu*, 6(3), 4600–4611.
- Viktor, M., & Hakim, F. (2021). Teacher professional development needs in using digital technology for quality of education. *Al-Ishlah: Jurnal Pendidikan*, 13(2), 907–912.

- Wahyuni, L. (2023). Pembelajaran diferensiasi melalui teknologi digital di sekolah menengah. *Jurnal Pendidikan dan Inovasi Kurikulum*, 7(1), 12–19.
- Wati, I., & Kamila, I. (2019). Pentingnya guru profesional dalam mendidik siswa milenial untuk menghadapi revolusi 4.0. *Prosiding Seminar Nasional Program Pascasarjana Universitas PGRI Palembang*, 12(1), 364–370.
- Yuliana, D., & Rahmat, A. (2022). Inovasi pembelajaran berbasis teknologi digital di sekolah dasar. *Jurnal Pendidikan Dasar*, 14(2), 88–97.
- Yunita. (2022). Pengaruh kedisiplinan dan kompetensi guru terhadap kualitas pendidikan di sekolah dasar. *Jurnal Pendidikan Dasar*, 13(1), 1–9.