

The Development of TPACK for Elementary School Teachers in Using Canva Application

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ABSTRACT

The purpose of this study was to determine the development of TPACK competencies in elementary school teachers in using Canva application. To achieve this goal, this study used a library research method by studying and analyzing various scientific articles, especially those related to TPACK competencies in elementary school teachers using the Canva application. All cited scientific articles were retrieved from Mendeley and Google Scholar. This study found that the development of TPACK competencies in elementary school teachers through the use of Canva can have a positive impact in creating a more dynamic, innovative learning environment that supports the optimal development of students in this digital era and can meet students' learning needs visually.

INTRODUCTION

The development of the current digital era certainly has an impact on teacher competence in integrating technology in learning. This is closely related to the teacher's ability to apply TPACK competencies. TPACK stands for Technology Pedagogy and Content of Knowledge which is a concept that emphasizes the integration of technology, pedagogy, and content knowledge [1]. TPACK offers teachers with a framework that helps them achieve meaningful and authentic integration of technology into the classroom by understanding the specific interactions between and among the basic knowledge sets that make up TPACK in different contexts [2]. In addition, TPACK should also facilitate students' needs. The application of TPACK cannot be separated from the use of technology that can encourage collaboration and communication between students to solve problems given by the teacher [3]. Some applications that can currently be developed to meet the needs of teachers and students in the TPACK-integrated learning process are Canva.

Canva is an online design program that provides a variety of tools such as presentations, resumes, posters, flyers, brochures, graphics, infographics, banners, bookmarks, bulletins, and so on provided in the Canva application [4]. Making learning media using the Canva application can make messages from educators to students easy to convey effectively and provide convenience in providing material that is easy to understand and more interesting [5]. Improving the quality of teachers in using Canva applications in elementary schools is relevant

given the role of visualization in understanding concepts to students.

Recently, there is still a gap between the potential of some teachers in implementing learning technology such as Canva and its utilization. There are still many teachers who only master basic technology in designing teaching materials such as only being able to use Microsoft Word and Power Point and do not yet have proficiency in using specific software in certain subjects. Whereas teachers must continue to develop their competence in the process of teaching and learning activities that are integrated with technology. The use of technology in learning is needed in designing, analyzing, evaluating, developing and implementing learning materials [6]. The Canva application offers a variety of visual features that can be used by elementary school teachers in designing teaching needs. Visual learning media using

Canva on motion system material is feasible to apply in the learning process because it can increase student motivation and enthusiasm for learning [7]. Visual learning media can make it easier for students to learn [8]. Based on the results of this study, efforts to develop TPACK competencies in elementary school teachers are needed. Teachers can integrate learning by using the Canva application. In addition, the results of previous research put forward by Irawan, 2022; Maira et al., 2022; Wati & Nafiah, 2020 in [9]. The TPACK approach can increase the effectiveness of science learning outcomes, increase student activeness, and improve learning outcomes.

The purpose of this study is to invite elementary school teachers to develop TPACK competencies in using the Canva application. Several studies on technology integration in education have been found. However, on this occasion, the researcher wants to delve more specifically in the context of exploring the core of the importance of developing technology integration in learning. Specifically, the development of TPACK competencies in teachers in using Canva as a visual learning tool. The results of this study are expected to provide useful and valuable guidance for teachers, especially teachers at the elementary school level to improve and develop the TPACK competencies of elementary school teachers in optimizing learning with technology.

RESEARCH METHOD

This research uses library research by reviewing and analyzing scientific articles, especially in the field of TPACK development and Canva applications. Library research is a method of collecting data by understanding and studying theories from various literatures related to the research [10]. All scientific articles cited in this study were sourced from Mendeley and Google Scholar.

RESULTS AND DISCUSSION

A. Development

1. Development is an effort to improve the technical, theoretical, conceptual, moral abilities of employees in accordance with the needs of the position [11].

2. Development is a process of designing learning logically, and systematically in order to determine everything that will be implemented in the process of learning activities by taking into account the potential and competence of the students [12].
3. Development is learning for employees to develop for the better, improve their performance so that they can improve their position in the future [13].

Teacher Human Resources (HR) is a group of individuals who have specialized knowledge, skills and competencies related to education. Teachers have an important role in delivering lessons, guiding students, and having a positive impact on the growth of learners.

The quality of human resources, in this case teachers, is critical to shaping the younger generation, helping them reach their full potential, and guiding them towards the knowledge and skills needed to face future challenges. The quality of teachers is critical to the success of student learning and development. In this study, the emphasis is on the quality of human resources of primary school teachers. Being an elementary school teacher is an important milestone in realizing and ushering in future generations of excellence.

B. TPACK Definition

The development of TPACK (Technological Pedagogical Content Knowledge) competencies in teachers is very important so that teachers are not left behind in the ever-growing digital era. In several literature articles, various definitions of TPACK were found, as follows:

1. The TPACK framework describes the infinite and open-ended interactions between technology, pedagogy, and content to show how effective teaching with technology is possible [2].
2. The TPACK approach based on video interactive media and Canva ppt was chosen because the teaching approach by integrating technological and pedagogical developments to develop content in the world of education can develop students in the use of technology to support the Teaching process using this technology will also make teaching run more effectively and efficiently and not boring students with the old method or approach [9].
3. TPACK is a model that contains technological, pedagogical, and content knowledge as a learning taxonomy that can fulfill needs related to subjects, individuals, and community needs through technology integration [14].
4. The TPACK approach is a framework that consists of three components including technological, pedagogical and knowledge aspects [15].
5. TPACK combines three important elements in teaching, namely knowledge of technology, pedagogical knowledge, and content knowledge [16].

Technological Pedagogical Content Knowledge (TPACK) is a framework that describes the type of knowledge needed by teachers to successfully apply technology in teaching. This structure consists of three parts, namely Pedagogical knowledge is teachers' knowledge of effective learning theories and practices.

Technological knowledge is knowledge of various technologies that can be used in learning, including how to use them effectively. Content knowledge, also known as content knowledge, is the teacher's knowledge of the subject matter to be taught. TPACK emphasizes that all three components must be integrated in teaching. Teachers with strong TPACK will be able to use technology to improve learning efficiency and productivity.

Based on the information you provided, it can be concluded that TPACK is a very important framework for teachers to incorporate technology in their teaching. This framework can help teachers in:

Understand how various content can be assisted by technology. Build successful learning strategies with technology. Evaluating the impact of using technology in learning. In addition, students can benefit from TPACK, such as: Increasing learners' interest and motivation to learn, improving learners' understanding of the subject matter, and improving learners' skills in using technology. Therefore, to provide more effective and meaningful teaching for learners, teachers should develop their TPACK.

C. Canva App

1. Canva is a software that provides various features such as, various forms of designs, fonts, gifts, link designs, barcodes, and others [17].
2. Canva application is a free and paid online-based application that is easy to use including in designing learning media [6].
3. Canva is a popular and versatile graphic design tool that can be used to create a variety of learning materials, including presentations, infographics and other visual designs. In the context of teaching biography texts, Canva can be used to:
4. Creating biography infographics: Teachers or students can use Canva to create interesting and informative infographics about famous personalities studied in biography texts. The infographic can contain images, important facts, and a chronology of the character's life.
5. Create visual presentations: Canva provides a variety of presentation templates that attractive and easy to customize. Teachers or students can use this template to create a visually appealing presentation to present a biography text.
6. Create illustrations and pictures: In biographical texts, there are often descriptions of the lives and events involving the characters. Canva can be used to create illustrations or images that match these descriptions, enriching the reader's experience.

Create posters or brochures: Canva can also be used to create attractive posters or brochures about the characters in the biography text. These posters or brochures can be used as promotional materials in learning activities [18].

Based on these findings, Canva is a graphic design software that offers a variety of features such as shape design, fonts, gifs, link design, and barcodes. It is easy to use and ideal for learning media designers, and can be accessed online for

free or for a fee. Canva is a popular and versatile graphic design tool that can be used to teach a variety of learning materials.

Canva offers a variety of presentation templates that can be easily customized, which allows teachers or students to create attractive infographics containing images, facts, and chronologies. In addition, it lets teachers or students create visually appealing presentations to present the content of a biography text. Canva becomes a useful tool for creating illustrations or images that enhance the reader's experience when responding to descriptions of the characters' lives and events. Finally, you can use Canva to create attractive posters or brochures about various kinds of learning materials or other needs required by users. TPACK competency development through Canva application Highly qualified teachers must be able to design and implement teaching programs based on their own TPACK competencies. In this case, teachers must adapt to various features and applications that can create and create interesting learning for students. Especially visual learning media which is very useful and has a high appeal for the current generation.

In this era of digitalization, the Canva application is an effective choice to increase creativity and the ability to convey information visually and at the same time increase the attractiveness of student learning. The following are the objectives of developing teacher competence in using the Canva application.

D. The purpose of developing TPACK competencies in elementary school teachers who use the Canva application

The purpose of developing TPACK competencies in elementary school teachers who use the Canva application is to improve technology integration. TPACK according to Baran and Thompson (2011) in [19] is an effective tool and way to improve teachers' abilities in terms of mastery of technology and teachers' ability to use technology in the learning process. The purpose of developing TPACK skills is to improve the integration of technology in the learning process. Combining technology, pedagogy and content knowledge will enable teachers to create more engaging and effective learning experiences.

Optimize the use of Canva app by understanding its features and knowing how to use it properly. It is expected that teachers can use design components such as text, images and graphics effectively to create more creative and informative learning materials. Although the Canva application contains paid templates, stickers, illustrations, fonts and so on [20] but this is precisely the opportunity for teachers to optimize the Canva application or for teachers who have a belajar.id account to enjoy premium Canva features for free. This is one way to optimize the use of Canva.

The purpose of developing teacher skills with Canva is to increase creativity in learning. According to the needs and characteristics of elementary school students, teachers can create more interesting and visual teaching materials. Teachers should also ensure that the learning materials created using Canva are of high quality. To improve teaching effectiveness, teachers are asked to create learning

materials that are informative, easy to understand, and visually appealing.

Teachers can continue to learn how to use Canva to help students work together. Through the Canva platform, teachers can create projects or activities that encourage students to work together and interact with each other. Utilizing design elements such as color, layout, and graphics in Canva can help teachers create visual designs that attract students' attention. In addition, the use of Canva is to increase students' motivation to learn. By making the subject matter visual and engaging, it is expected that students are more interested in engaging in the learning process.

Teachers are asked to create a digital portfolio featuring various learning materials that they have designed using Canva. This portfolio can be used as a reference and as evidence that teachers have TPACK skills. Through achieving this goal, it is expected that elementary school teachers can better use Canva as a visual learning tool, improve the quality of learning, and make it easier for students to learn.

CONCLUSION

Teachers must acquire TPACK (Technology Pedagogical Content Knowledge) competencies so that they can integrate technology, pedagogy and content knowledge in teaching. TPACK helps teachers make learning more engaging and successful. Canva is a free or paid graphic design app that offers various templates and features that allow teachers and students to create engaging learning materials, such as infographics, visual presentations, illustrations, posters and brochures. Teachers should understand all the features of the app to optimize the use of Canva. With Canva, skill development aims to improve collaboration between students, technology integration, creativity in learning, and student motivation. In addition, teachers are expected to produce digital portfolios as evidence of their TPACK skills. Future research is expected to focus on measuring the impact of using Canva on students' achievement and their engagement in learning.

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