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Implications of ChatGPT implementation on students' understanding level in Pancasila Education subjects

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ABSTRACT

Learning requires supportive media to achieve the desired goals. In this modern era, technology has become an inseparable part of education, including in teaching and learning processes that utilize various technological tools. One widely used artificial intelligence innovation is the ChatGPT program. Currently, many students use ChatGPT to help them understand their study materials, facilitated by the ease that this technology offers. This study aims to provide an argumentative overview of the importance of technology utilization, specifically the ChatGPT program, in enhancing students' understanding. The approach used in this research is qualitative with a descriptive method, involving data and document analysis through data reduction, data presentation, and conclusion drawing. In this study, the participants involved included three Pancasila Education teachers and 36 students from class XI-4 at SMA Negeri 1 Tanjung Raja. The results show that the use of ChatGPT significantly helps improve students' understanding in Pancasila Education, supporting the achievement of educational goals such as critical and creative thinking, as well as independent problem-solving skills.

ABSTRAK

Pembelajaran membutuhkan media pendukung untuk mencapai tujuan yang diinginkan. Era modern menjadikan teknologi sebagai bagian yang tak terpisahkan dalam kehidupan manusia, termasuk dalam proses pembelajaran di satuan pendidikan. Teknologi yang berkembang pesat antara lain adalah kecerdasan buatan (*Artificial Intelligence*). Salah satu inovasi kecerdasan buatan yang banyak digunakan adalah program ChatGPT. Saat ini, banyak pelajar menggunakan ChatGPT untuk membantu mereka memahami materi pelajaran, didukung oleh berbagai kemudahan yang ditawarkan oleh teknologi ini. Penelitian ini bertujuan memberikan gambaran argumentatif tentang pentingnya pemanfaatan teknologi, khususnya program ChatGPT, dalam meningkatkan pemahaman peserta didik. Pendekatan yang digunakan dalam penelitian ini adalah kualitatif dengan metode deskriptif, yang melibatkan analisis data dan dokumen melalui proses reduksi data, penyajian data, hingga penarikan kesimpulan. Dalam penelitian ini, narasumber yang dilibatkan terdiri dari tiga orang guru Pendidikan Pancasila dan 36 peserta didik kelas XI-4 di SMA Negeri 1 Tanjung Raja. Hasil penelitian menunjukkan bahwa pemanfaatan ChatGPT secara signifikan membantu meningkatkan pemahaman peserta didik dalam mata pelajaran Pendidikan Pancasila, serta mendukung tercapainya tujuan pendidikan seperti kemampuan berpikir kritis, kreatif, dan keterampilan menyelesaikan masalah secara mandiri.

Kata Kunci: ChatGPT; pemahaman peserta didik; pendidikan pancasila

INTRODUCTION

Global openness and the increasingly unstoppable flow of information, coupled with increasingly sophisticated technological developments, certainly have complex impacts, both positive and negative, which occur simultaneously. (Nursanti et al. 2023). Easy and fast access to information enables people, including students, to acquire knowledge instantly from various sources worldwide. Although rapid technological developments bring many benefits, negative impacts such as a decline in students' reading and writing skills, a less humane educational environment, distortions in social interactions, and individual isolation due to technology use also often appear. (Dewanto et al. 2023).

The innovations of the current technological era offer numerous benefits, particularly in terms of increased ease of access. Technology has become a vital tool in the learning process. (Adnin et al. 2024). Undeniably, using technology as a learning medium plays a crucial role in making it easier for teachers to deliver material while increasing student enthusiasm. Without technology as a learning medium, students will face learning difficulties that worsen the education process. Moreover, various features are available in well-designed technology programs to support learning and development. However, it is important to regulate the use of technology so as not to create dependency or allow technology to control the learning process. One form of significant technological advancement is artificial intelligence, also known as Artificial Intelligence (AI), which is currently being widely implemented in various fields of life, including education (Adnin & Sapriya, 2024).

Artificial Intelligence (AI) is a supporting tool to facilitate various activities, including the teaching and learning process. One significant form of AI is ChatGPT, which students have utilized to support their learning and significantly enhance learning outcomes through the understanding gained from its use. In learning activities, ChatGPT provides access to broad information and knowledge, facilitating the independent learning process, offering guidelines for completing tasks, and providing additional explanations when students encounter difficulties. Research by Putri et al. (2024) Supports this finding, showing that ChatGPT plays a strategic role in helping students understand complex material more easily. ChatGPT provides clear and concise explanations, which support retaining learned materials. The implication is the increasing enthusiasm and active role of students in learning, as well as the ease with which they solve problems or tasks faced (Rahman et al. 2023).

ChatGPT can be accessed outside of school learning activities, allowing it to be used anywhere. The convenience offered by the ChatGPT program is very beneficial, especially in today's technological era. Advances in technology, particularly the emergence of Artificial Intelligence (AI), have profoundly and significantly impacted various aspects of life, including education. ChatGPT is a groundbreaking innovation that has captured the attention of many people. This innovation has garnered substantial attention in multiple fields, including education, where it is widely appreciated by students for its ease of use in the learning process (Sahabudin, 2023).

Currently, many students experience a decline in their understanding during learning activities. One of the obstacles often faced in the learning process is students' limited comprehension of the material taught by the teacher or facilitator (Haryani et al. 2021). Difficulty in understanding learning materials is a challenge, indicating that the students' inability to grasp the material during the learning process is one factor that hinders the achievement of competency. This condition should not occur because learning objectives can be achieved if students understand the material presented well. A solution to this problem is to utilize learning media that are appropriate for the era in which students grow and develop, especially those that are technology-based and popular among students, such as ChatGPT (Taena et al. 2023).

Given that technology and information media are now inseparable from learning activities, it is crucial to leverage these advancements in the educational process. Technology provides students with access to tools and resources that enable them to expand their understanding, one of which is through innovative programs such as ChatGPT (Adnin & Hubi, 2023). Students use ChatGPT due to its various features, including in-depth concept explanations, creative task designs, development of engaging teaching materials, and prompt delivery of fast and relevant feedback. These facilities significantly contribute to the effectiveness of learning activities, enabling students to grasp the material more quickly and accurately. Therefore, students must develop a precise and comprehensive understanding during their learning process, so that they are not only able to retain information but also grasp the context and application of the knowledge gained (Azzahra et al. 2023).

ChatGPT offers a simple and user-friendly interface, providing interesting and useful answers that attract the attention of many people, including students. ChatGPT not only presents innovations in educational technology but also supports students in a fun and interactive way. The advantages of ChatGPT align well with the character of the current generation, who seek convenience without compromising the quality of education. As a provider of information access, ChatGPT provides answers that significantly impact the development of students' knowledge and skills. These impacts include enhancing critical thinking skills, promoting active student involvement in the learning process, and deepening their understanding of the subject matter being studied (Maulana et al. 2023).

In today's digital era, available learning media contribute to improving quality and facilitating learning activities for students and teachers. This increase in quality is evident in the active involvement of students in searching, verifying, and processing various answers provided by ChatGPT. As a media provider of information, ChatGPT allows students to understand the material more easily. The information presented by ChatGPT is delivered in detail and structured, in line with the instructions, to support the learning process effectively. This encourages students to learn independently and fosters a high sense of curiosity about the learning material they are studying (Susanti et al. 2023).

Given the above conditions, the urgency of utilizing technology in learning activities is apparent to improve student efficiency and understanding, one of which is through ChatGPT. One of the common problems in Pancasila Education lessons is the perception that this subject is boring, which harms students' understanding during the process of receiving the material (Adnin et al. 2023; Ramadhan et al. 2023). Based on this, innovation is needed in learning, particularly in using engaging and relevant media or aids. Pancasila Education encompasses a diverse and broad topic, so it requires suitable and effective media to support students' understanding of the teaching material. Thus, the knowledge obtained from the use of technology-based media, such as ChatGPT, can be applied in behaviors that benefit both the individuals and the environment where the students are active, encouraging them to become active and responsible citizens (Azizah et al. 2023). Previous research has shown that ChatGPT helps support learning. ChatGPT serves as an aid, while the teacher's role remains crucial in the learning process (Merentek et al. 2023). Other studies suggest that 72% of ChatGPT users feel helped in finding information related to learning, while 38.11% of students report benefiting during the learning process (Mutiah et al. 2024).

This study examines the implications of using ChatGPT on students' understanding of Pancasila Education material, highlighting its differences from conventional teaching methods and common digital devices. This study focuses on the application of ChatGPT, an interactive AI technology that has not been extensively explored in the context of Pancasila Education, to facilitate a deeper understanding of national values. This study investigates how integrating AI, particularly ChatGPT, can enhance the learning experience by offering interactive access to information and presenting simulations or examples relevant to understanding the material. This study examines the implications of implementing ChatGPT on the level of student understanding in the Pancasila Education subject and how this program can

enrich the learning experience and deepen students' understanding of national values. Given the current low level of student understanding, this study is expected to serve as a basis for teachers, particularly in Pancasila Education, and contribute to developing effective learning methods.

LITERATURE REVIEW

ChatGPT

Artificial Intelligence (AI) is a technology designed to mimic and perform human cognitive functions, including automatically learning, adapting, and completing complex tasks. AI has developed rapidly in recent decades and is implemented in various fields, including education, health, and business, aiming to increase efficiency and facilitate daily activities. One example of an AI application currently popular in education is ChatGPT, a language model developed by OpenAI. ChatGPT is designed to understand and generate text that resembles human conversation, making it an effective tool in supporting the learning process (Luthfiyyah et al. 2024). ChatGPT's popularity is increasing due to its multifunctional capabilities, which attract the interest of students and educators. ChatGPT not only functions as a writing aid and source of inspiration but also as an interactive medium that allows users to exchange stories or roles virtually (Setiawan et al. 2023). In addition, ChatGPT offers the ability to provide responses that resemble human communication, support independent learning activities, and deliver high-quality content. Thus, ChatGPT becomes a significant alternative in the modern learning process, providing flexibility for users to learn according to their needs and style (Misnawati, 2023).

Pemahaman Peserta Didik

Understanding reflects how students think and can understand the concept of science (Priyadi et al. 2019). When students' understanding is considered good, this certainly has a significant impact on improving their performance in completing tasks given by teachers, of course, adjusted to their abilities and level of understanding that they previously had. Good understanding also increases enthusiasm and provides opportunities for students to learn with the efforts and steps they prefer (Naibaho, 2023). The importance of this understanding requires support from various parties, including synergy between the role of teachers in each educational unit and parents in the family environment. This collaboration certainly cannot be ignored to ensure that learning strategies run effectively, with the hope of being able to make students' understanding continue to develop (Hasnawati, 2022). Good understanding also has a major impact on the achievement of learning outcomes because it is the basis for applying material that has been understood to a higher level (Asiah et al. 2021).

Mata Pelajaran Pendidikan Pancasila

The Pancasila Education subject, previously known in Indonesian as Pendidikan Pancasila dan Kewarganegaraan (PPKn), has undergone a name change in the Merdeka Curriculum, as per Peraturan Pemerintah Nomor 4 Tahun 2022, which regulates changes to Peraturan Pemerintah Nomor 57 Tahun 2021 concerning Standar Nasional Pendidikan (SNP) in English is National Education Standards. This regulation requires SNP to keep pace with developments in science, technology, and community needs, thereby enhancing the quality of education. Several key points in these government regulations include adjusting the curriculum to be more flexible and relevant, exploring variations in assessing learning outcomes, and strengthening character education and foundational competencies at all levels of education (Parwati et al. 2023). Despite the change in nomenclature, the material's content remains the same, namely covering Pendidikan Pancasila dan Kewarganegaraan (Santoso et al. 2024). Pancasila

Education has a broader meaning, covering dimensions of values, concepts, norms, and morals (Raharjo, 2020). The complexity of this material highlights the diverse aspects encompassed in the Pancasila Education subject. The primary focus of this subject includes efforts to develop students in aspects of religion, socio-cultural, language, age, and ethnic diversity, to form an intelligent, moral society that aligns with the values of Pancasila and the UUD 1945. This means that Pancasila Education plays a crucial role in equipping students with a deep understanding and attitudes and values that support the teaching and learning process (Maysarah et al. 2023).

METHODS

This research is a qualitative approach with a descriptive method. It can be explained that descriptive research is a research method that aims to present a picture of a study through the description, explanation, and validation of the activities being studied by Ramdhan (2021) This study aims to provide new insights into technological innovation in learning that has a positive impact on students' learning processes, particularly in the subject of Pancasila Education. The data in this study were obtained from various sources, including books, relevant scientific journal articles, and data collection results through questionnaires administered to 36 students in grades XI-IV. In addition, short interviews with Pancasila Education teachers and documentation in photos were also used to support the research process.

Data analysis was conducted using an interactive model comprising three main components: data reduction, data presentation, and drawing conclusions or verification (Riswari et al. 2023). At this stage, the researcher groups data that is considered important to simplify and focus on, then presents it and draws conclusions based on descriptive analysis. This analysis is conducted by referring to previously established indicators.

Triangulation was employed through several steps to ensure the validity of the data. First, triangulation of data sources that compare information from questionnaires, interviews, and documentation. Second, triangulation of methods is used to verify the consistency of results from interviews and questionnaires. Third, triangulation between researchers involves comparing the data findings from this study with those from other studies to strengthen the validity of the results. In addition, data were also collected from sources, including 36 students in grades XI-4, and interviews with 3 Pancasila Education teachers to strengthen the analysis results.

Table 1. Indicators of the Level of Understanding of Pancasila Education Material in the Use of ChatGPT

No	Variables	Indicators	Descriptors
1.	Level of Understanding of Pancasila Education Material when Applying ChatGPT	Conceptual Understanding	1. Interpreting 2. Giving Examples 3. Classifying 4. Summarizing 5. Guessing 6. Comparing 7. Explaining

Source: Processed by Researchers in 2024

Students' understanding of ChatGPT is monitored through a series of predetermined indicators, as in **Table 1**. The more students can fulfill these seven indicators and the more often they apply them in the learning process, the better their understanding of the learning material can be considered.

Measurement based on these indicators is important to accurately understand student understanding. In this study, measurements were carried out using a questionnaire compiled based on predetermined indicators. The questionnaire was given to 36 students in grades XI-4 at SMA Negeri 1 Tanjung Raja as the primary research instrument. In addition, interviews were also conducted with Pancasila Education teachers, which were designed based on the same indicators but focused on an educator's perspective.

RESULTS AND DISCUSSION

Effective and relevant supporting media or facilities are necessary to achieve maximum learning outcomes and in-depth understanding for students. In today's digital technology era, technology has become integral to various aspects of life, including education. The application of technology in learning is becoming increasingly important because students tend to be more interested and enthusiastic when using modern devices. When teachers introduce programs or applications that facilitate the learning process, student involvement in learning can increase. Students need an Active, Innovative, Creative, Effective, and Enjoyable Learning model in Indonesia, which is known as PAIKEM (Pembelajaran Aktif, Inovatif, Kreatif, Efektif, dan Menyenangkan). This learning model will be more effective if supported by the use of various technology-based media that are interesting and easily accessible (Intaniasari et al. 2022).

One technology that can support this learning is artificial intelligence, such as ChatGPT. ChatGPT is a widely used artificial intelligence program in various fields, including education. This program offers multiple conveniences, such as the ability to provide fast, accurate, and diverse information according to instructions so that interactions seem to involve humans directly. ChatGPT is also capable of offering suggestions, enhancing student engagement, presenting comprehensive information, and stimulating creativity and problem-solving (Pontjowulan, 2023). ChatGPT has adaptive capabilities that adjust its text and answers to meet user needs. With these advantages, ChatGPT is a very useful tool to make it easier for students to understand the material more deeply, especially in learning that requires creativity and problem-solving, such as Pancasila Education (Fitrianinda et al. 2024).

Figure 1. Demonstration of ChatGPT Implementation in Pancasila Education Learning
Source: Documentation (2024)

Figure 1 illustrates a learning activity that begins with a demonstration of ChatGPT's use. This demonstration aims to enable students to understand and apply technology more effectively in the learning process. Although some students had previously used ChatGPT, on this occasion, they were directed to use the application in a more structured and targeted manner. As a facilitator, the teacher is

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crucial in providing direction, facilitating learning, and helping students utilize this technology optimally. At this level, the teacher plays an important role in ensuring that technology is used effectively and guiding students in utilizing artificial intelligence properly and responsibly to achieve the expected learning objectives.

Optimal learning outcomes depend heavily on a deep and applicable understanding. Understanding plays a crucial and strategic role in the learning process, as it reconstructs interrelated values. This is not just a stage of combining existing knowledge but an effort to build new, more meaningful relationships (Shidik, 2020). Thus, teachers must provide relevant and effective learning materials to support the achievement of these goals (Pangaribuan et al. 2021). One of the highly relevant media in this digital era is artificial intelligence, such as ChatGPT, which offers flexibility in learning. With its ability to provide fast, accurate, and varied information, ChatGPT can increase student engagement in learning. The modern generation requires a more flexible and interactive approach, which enables them to learn in a manner that aligns with current technological developments (Salsabila et al. 2020). Teacher guidance in utilizing this technology is crucial so that students can fully benefit from it, enhancing their understanding of the material and practical applications outside the classroom.

Figure 2. Utilization of ChatGPT as a Media in Pancasila Education Learning
Source: Documentation (2024)

Figure 2 illustrates the presentation activity of the project results, which were carried out using ChatGPT. The use of ChatGPT in this process aims to help students gain a deeper and more varied understanding. By utilizing the breadth of information available through ChatGPT, students are expected to develop more optimal understanding skills in their learning process.
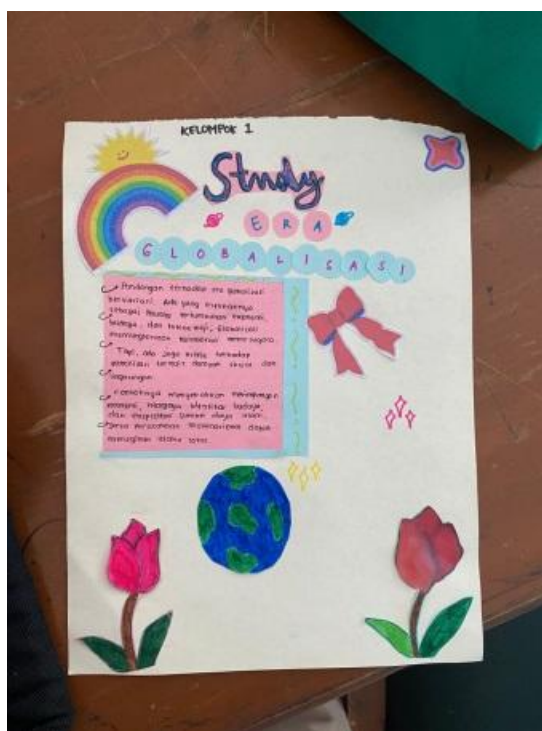
Figure 3. Creative Results of Material Obtained through the Use of ChatGPT
Source: Documentation (2024)

Figure 3 shows one of the results of a project worked on in groups. The content of the product is the result of understanding the material obtained with the help of ChatGPT. Students use this program to repeatedly verify their understanding until they receive an accurate answer that meets their needs. This process ensures that the understanding presented in the project has undergone a testing and refinement stage, resulting in a higher-quality result.

The use of ChatGPT in learning not only encourages students to copy answers provided by the program directly but also requires them to review and critically analyze the answers before using them. This approach is an effective tool to help students deepen their understanding of the material they are studying. Because ChatGPT can provide various answers and broad information, students can explore different perspectives on a single topic. This encourages students not only to accept ready-made answers but also to engage in the critical thinking process, dig deeper into the information, and map various aspects of the material being studied. As a result, students can develop their ability to evaluate information and enhance the analytical skills necessary for the learning process.

Effective teacher supervision is crucial to maximizing the benefits of technology while minimizing its negative impacts (Akbar & Noviani, 2019). This guidance not only helps direct the use of technology wisely but also ensures that students understand the material correctly and can correct errors that may occur during the learning process. Along with technology's rapid development, teachers' role as companions and facilitators is increasingly crucial. Proper supervision enables the optimal use of technology, such as ChatGPT, to support learning (Halim et al. 2023).

Technology in learning plays a crucial role in enhancing students' understanding and fostering their enthusiasm and active participation (Murtado et al. 2023). ChatGPT, with its sophisticated capabilities, provides easy access to a wide range of information that can help broaden students' horizons. In addition to relying on explanations from teachers, students can also use this artificial intelligence to

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strengthen their understanding. Thus, using ChatGPT supports more independent learning but still under the guidance of teachers, resulting in more optimal and focused outcomes.

The data in this study were processed through several stages, from collection to in-depth analysis based on the indicators set in the method section. The first stage involves data collection, which is conducted using questionnaires and interviews. This instrument is compiled based on indicators of understanding of Pancasila Education material, such as interpretation, grouping, and re-explanation.

After the data is collected, processing is carried out through three main stages: data reduction, data presentation, and conclusion. Data reduction aims to filter and simplify raw information, focusing on answers relevant to understanding the indicators. Furthermore, data presentation is carried out descriptively in meaningful descriptions to facilitate interpreting aspects of student understanding. In the final stage, conclusions are drawn by referring to the established indicators to assess student understanding after using ChatGPT in Pancasila Education learning.

Figure 4. Division of Questions Containing Understanding Indicators
Source: Informant Documentation 2024

Figure 4 illustrates the questionnaire distribution with questions based on predetermined understanding indicators. This questionnaire was designed to collect data based on the perspectives and experiences of informants that are relevant to the research. The results of the descriptive analysis of the questionnaire administered to 36 students in grades XI-4 at SMA Negeri 1 Tanjung Raja reveal their understanding of using ChatGPT as a learning aid for Pancasila Education. This analysis provides insight into the effectiveness of ChatGPT in supporting students' learning processes and enhancing their understanding of the material.

The informants stated that using ChatGPT was very helpful for them in understanding the discussion they were seeking. Resource person 1 felt helped because the variety of answers provided by ChatGPT offered additional references that could be processed into more effective responses. Meanwhile, Resource person 2 explained that ChatGPT facilitated the process of independently concluding after reading various answers, allowing them to achieve the desired context of the answer. Both agreed that ChatGPT was very useful in finding ideas or additional references. Resource person 1 appreciated the detailed explanations and examples ChatGPT gave when answering certain questions. Meanwhile, Resource Person 2 added that ChatGPT was a source of inspiration, especially when they had difficulty

understanding or finding a clear picture of the answers they were looking for, including providing examples.

On the other hand, Resource Person 1 felt that the variety of answers provided by ChatGPT made it easier for them to choose the most relevant answer. Resource Person 2 considered that the variety of answers trained their ability to classify and sort the answers that best suited the task's needs, ensuring that the essence of the sought answer was not lost. Both resource persons also admitted that they always summarized or reviewed the answers obtained from ChatGPT to make them more efficient and easier to understand. Resource Person 1 emphasized the importance of simplifying answers to avoid too long or convoluted explanations. Meanwhile, Resource Person 2 noted that the simplification was made to clarify the answers and make them more relevant to the task.

The results of the data analysis showed that both sources agreed on the importance of the ChatGPT answer verification process. Resource person 1 verified the answers by comparing them with their knowledge to ensure accuracy and relevance. Resource person 2 explained that the verification process involved combining information from ChatGPT with their insights or understanding. Resource person 1 added that when in doubt, they compared the answers to several questions with different keywords but similar meanings. This helped them find the answer that best suited their needs. Resource person 2 emphasized that they often repeated questions until they got an answer that truly met their needs.

Resource person 1 felt that reading and repeating answers during the search not only helped them understand the material but also improved their ability to re-explain the information that had been obtained. Resource person 2 conveyed something similar, stating that re-reading the answers before writing them into the assignment helped them convey explanations more clearly and in a structured manner.

Based on the results of the responses obtained, several aspects were found that showed the development of students' understanding as follows:

1. Interpreting: ChatGPT helps students interpret information in more depth and detail. Their ability to interpret increases, as evidenced by their capacity to provide diverse views while remaining relevant to the context of the answers provided by ChatGPT. This experience enriches participants' understanding by challenging them to think critically and combine various perspectives.
2. Providing examples: The answers generated by ChatGPT not only answer questions but also provide additional inspiration for students. This process helps students better understand a concept or context. They can process and relate the information to other relevant examples, showing a deeper understanding.
3. Classifying: ChatGPT's numerous variations of answers encourage students to classify information effectively. They are required to sort out the information that best suits the discussion they are looking for. This process fosters a habit of critical thinking and enhances the ability to filter information, thereby sharpening and structuring students' understanding.
4. Summarizing: Students find that ChatGPT can assist them in summarizing information by providing specific instructions. However, after that, they still have to use their understanding to elaborate and re-understand the information that has been circulated. Thus, ChatGPT not only helps reduce information overload but can also serve as a means to train students' critical thinking skills in collaboration and re-explaining the material.
5. Guessing: In this indicator, participants are taught to acknowledge that sometimes the answers or feedback provided by ChatGPT do not entirely align with what is expected, especially in estimating or predicting something. However, ChatGPT often provides insights or predictions that students have not considered, especially about future or hypothetical scenarios. This indicates that students'

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understanding in this area requires further teacher guidance to help them make more informed guesses.

6. Comparing: Comparing requires a deep understanding, especially when faced with various answers given by ChatGPT. This process hones students' ability to assess differences and similarities between answers while training them to identify the strengths and weaknesses of each presented answer so that they can develop stronger and more structured arguments.

7. Explaining: After obtaining all the necessary information during the learning process, students are expected to be able to re-explain the results of the answers provided by ChatGPT. This not only tests their ability to understand the answers but also their ability to convey that knowledge in their own words. The ability to re-explain is a sign of mature understanding, where learners can apply the information provided by ChatGPT in conjunction with the concepts they are learning.

Interview results were also obtained from 3 (three) Pancasila Education teachers, namely SG, SP, and EN. The questions asked of the informants were designed based on previously determined indicators of understanding levels. The following is a description of the interviews conducted.

In the first question, all informants agreed that the use of ChatGPT positively improved student understanding. Resource person SG said that ChatGPT helped simplify complex material so that students could more easily understand the contents of the material without losing important details. This opinion was supported by resource person SP, who added that although ChatGPT was very helpful, other supporting media were still needed to strengthen learning effectiveness. Meanwhile, resource person EN emphasized that the variety of answers given by ChatGPT allowed students to ask questions repeatedly until they truly understood the material thoroughly.

In the second question, which discussed ChatGPT's ability to meet understanding indicators such as interpreting, giving examples, grouping, summarizing, guessing, comparing, and explaining, all informants stated that ChatGPT could support each of these indicators. Resource person SG highlighted that the effectiveness of ChatGPT is highly dependent on the clarity of instructions given by students. Resource person SP reminded us of the importance of accuracy in utilizing ChatGPT so that all understanding indicators can be optimally met. Resource person EN added that using ChatGPT requires additional supervision and guidance from teachers so that the results can support maximum understanding.

In the third question, which focused on the role of ChatGPT in facilitating student understanding, resource person SG explained that ChatGPT presents complete but simple material with easy-to-understand language. Resource person SP emphasized the advantages of ChatGPT in providing fast responses and being by student needs so that they can more easily master the material. Resource person EN emphasized that ChatGPT allows students to continue asking questions if parts are not yet understood. The learning process can occur gradually and in-depth until students feel confident about the material being studied.

The statement conveyed from the perspective of the Pancasila Education teacher shows that ChatGPT indirectly improves student understanding during the learning process, including in the Pancasila Education subject. This is supported by various conveniences and positive benefits offered by ChatGPT. Therefore, teacher guidance is important to ensure that ChatGPT runs optimally and by learning objectives.

Based on the analysis of data processed descriptively, it can be concluded that the application of ChatGPT in learning has significant implications for improving student understanding, especially in Pancasila Education subjects. Technology such as ChatGPT makes a complex contribution to learning, especially in understanding abstract and applicable concepts. As discussed, technological advances cannot be avoided or prevented but must be accepted and utilized wisely. This technology, when

combined with proper guidance and supervision from teachers, can be used as a very effective means of supporting the learning process in schools and implicitly adds real positive benefits to students' intellectual development and skills.

Discussion

The use of technology in 21st-century learning is essential so that students can meet the demands of an increasingly complex and dynamic era (Adnin & Sapriya, 2024). These demands include integrating knowledge with technology so that students not only master the subject matter but must also be able to adapt and utilize technology effectively in their lives. In the context of Pancasila Education learning, the use of technology not only encourages students to understand the values of Pancasila but also helps them adapt to developments in the era and make positive contributions, even on a small scale. Learning success begins with providing students meaningful understanding, the foundation for achieving broader and more sustainable educational goals.

In line with the development of the Merdeka Curriculum, the Pancasila Education subject demands an in-depth understanding from students. The material presented often requires critical analysis and in-depth reflection. The purpose of Pancasila Education learning is to help students think critically, creatively, and rationally when faced with a relevant citizenship problem or issue. To achieve this goal, a strong and in-depth understanding is needed. One effective effort can be made is to utilize technology that is in line with the development of the times. With a correct and in-depth understanding, the learning objectives of Pancasila Education can be achieved, which ultimately has positive implications for students' ability to make meaningful contributions to themselves, their surroundings, and even to the country (Putri & Dewi, 2021).

The Pancasila Education subject in the Independent Curriculum encourages students to learn independently. This requires a proper and accurate understanding so that the learning process occurs effectively. Considering that education is currently in the 21st century, there is a strong push for students to develop skills equipped with adequate knowledge and technology, so learning must be integrated with qualified technology to support and enrich the learning process. By incorporating technology into learning, students can not only access broader information but also train critical and analytical thinking skills, which are very important in efforts to face the various challenges of an increasingly rapidly developing era (Khusna et al. 2023).

In the implementation of the Merdeka Curriculum, teachers are required to innovate creatively in various aspects of learning, including teaching methods, media utilization, and changes in mindset in carrying out learning activities in schools (Hasibuan et al. 2023). In Indonesia's education context, Pancasila Education is always taught at all levels and is an important part of the curriculum. The purpose of this subject is to build students' understanding and awareness of the values contained in Pancasila as the foundation of the state, as well as their rights, obligations, and roles as citizens (Cicilia et al. 2022). Thus, Pancasila Education aims to form individuals who understand and are competent in implementing these values in their daily lives. It is hoped that this can encourage students to become citizens who have a sense of responsibility, are ethical, and are aware of the values of Pancasila so that they can contribute to the development of a democratic, just, and diverse nation (Sailan et al. 2024).

The use of technology in learning is an important aspect that cannot be ignored. However, its use will not be optimal without guidance and supervision from teachers. For example, applications such as ChatGPT need to be used wisely, where students must become the controllers of the artificial intelligence program, not the other way around. If students are not wise in using technology, there is a risk that the technology will control them. This shows the importance of the role of teachers in assisting students

when using technology in the learning process. With proper guidance, learning outcomes can remain positive and by educational goals and support the achievement of the objectives of the Pancasila Education subject. Thus, teachers are expected not only to act as teachers but also as facilitators who can assist students in understanding, utilizing, and developing the potential of technology effectively in a relevant and constructive learning context (Brotosudarmo, 2022).

The study's results demonstrate that ChatGPT offers numerous benefits and can effectively support learning activities, enabling students to achieve the desired competencies. ChatGPT provides various answers with detailed explanations and helps inspire ideas and concepts. Other benefits include supporting the learning process by providing an easily accessible understanding through uncomplicated and straightforward explanations. Additionally, ChatGPT streamlines the process of completing assignments and various other learning tasks. ChatGPT is a medium or tool that makes it easier for students to complete assignments, find inspiration, reflect on their progress, and receive useful guidance. This finding aligns with research conducted by Suharmawan (2022), which concluded that ChatGPT offers several significant benefits. ChatGPT allows personalized learning that can be tailored to individual needs, increasing the accessibility and affordability of education without geographical limitations. ChatGPT is an interactive learning resource that facilitates a deeper understanding of the material. This program also helps students complete assignments and solve problems independently through relevant instructions and structured steps. Based on this, ChatGPT plays a significant role in positively impacting learning activities (Husnaini & Madhani, 2024).

ChatGPT can provide detailed and comprehensive responses based on user keywords as an intelligent artificial intelligence program. However, the answers generated still need to be clarified and validated to ensure their truth and relevance. Thus, students are not only required to seek information but also to understand, analyze, and verify the answers provided by ChatGPT. This encourages students to improve their understanding through a deeper and more critical thinking process. With this support, ChatGPT becomes an effective tool to help students achieve the learning objectives of Pancasila Education, facilitating better understanding during the learning process, especially in answering questions that require more detailed and in-depth analysis.

CONCLUSION

Many students struggle to achieve a high level of understanding of the material during learning, despite understanding being the primary key to achieving learning goals. To improve understanding, students need supporting media to facilitate learning. One of the relevant media in the digital era is technology, which has become an inseparable part of everyday life. Artificial intelligence technology, such as ChatGPT, can be utilized to support learning. This program offers various helpful conveniences, such as efficiency in achieving learning goals, including those for the Pancasila Education subject, which is quite complex. With the answers provided by ChatGPT, students are expected to achieve a deeper and more accurate understanding, provided they are guided and supervised by teachers when used in schools. This understanding enables students to apply the principles of Pancasila Education in their daily lives, for themselves, their surroundings, and their nation and country. Based on this, the application of appropriate technology, such as ChatGPT, can be an effective solution to improve student understanding, thanks to this program's convenience and various advantages. Future research in this area can explore the implications of ChatGPT from other perspectives, particularly those related to learning activities. Thus, teachers can continue innovating and utilizing the latest emerging technologies or programs to support the teaching and learning process optimally.

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