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TRANSFORMING EDUCATION TO PREPARE FUTURE GENERATIONS TO FACE GLOBAL CHALLENGES

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Abstract:

This study aims to explore and analyze how educational transformation can prepare future generations to face increasingly complex global challenges. Using a qualitative approach, this study identifies various changes in the education system that are needed to respond to the dynamic development of the world. The research findings indicate that education should focus on strengthening 21st century skills, integrating technology into learning, and developing inclusive and adaptive character.

Keywords: Educational Transformation, Future Generation, Global Challenges, 21st Century Skills

INTRODUCTION

In facing the ever-evolving world, educational transformation is very important to prepare the future generation. The global world today is faced with various complex challenges that require new skills and knowledge, as well as characters that can adapt to changing times (Muliadi & Nasri, 2023). Various issues such as rapid technological changes, environmental problems, and changing social and economic dynamics require special attention in the education process. Education does not only focus on teaching basic knowledge, but must also develop skills that are relevant to increasingly complex global challenges.

The rapid development of technology is one of the biggest challenges faced by society and education systems around the world. With the emergence of new technologies, such as artificial intelligence (AI), the Internet of Things (IoT), and blockchain, society is required to have higher digital skills and critical thinking abilities. These technologies also affect the way we learn and teach, and open up access to information globally. Therefore, education must be adjusted to the need to integrate technology into the learning process, in order to prepare students to compete in an increasingly digitally connected world (Selwyn, 2016).

In addition to technology, environmental issues are global challenges that require serious attention in education. Climate change, pollution, and loss of biodiversity are issues that directly affect human life. Environmental education needs to be instilled so that future generations understand the importance of sustainability and can play an active role in environmental conservation and protection efforts. This concept is in line with the sustainable development goals (SDGs), which emphasize the importance of education to achieve environmental conservation goals (UNESCO, 2017).

In addition, rapid social and economic changes add to the complexity of the challenges facing the world. Social inequality, poverty, and inequality of access to quality education worsen this situation (Tamam, 2018). The education system needs to respond to this inequality by providing equal opportunities for all levels of society to obtain quality education. Education must also teach values such as tolerance, inclusivity, and social entrepreneurship, so that future generations can face social problems with creative

and sustainable solutions (Stiglitz, 2012).

To address these challenges, education must undergo a transformation. This includes developing a curriculum that is more relevant to global needs, enhancing 21st-century skills, and character education that supports adaptability and critical thinking. 21st-century education emphasizes skills such as creativity, collaboration, communication, and complex problem solving (Saavedra & Opfer, 2012). This educational transformation must also take into account the social and emotional dimensions, so that students are not only academically but also morally and socially prepared to face a world full of uncertainty and challenges.

This study aims to understand how education can transform so that the younger generation is ready to face the ever-evolving global challenges. This study will explore various aspects of education that need to be updated and improved to ensure that future generations can face them with the right skills, knowledge, and character.

Educational transformation has been a widely discussed topic in the literature to address the challenges of a changing world. Previous studies provide important insights into the various elements that influence this transformation, including the development of 21st-century skills, the integration of technology, and the strengthening of inclusive character in education.

Saavedra and Opfer (2012) explained that 21st century education demands a paradigm shift from rote-based teaching to critical skills-based learning, collaboration, and creativity. They emphasized the importance of an education system that is oriented towards developing high-level thinking skills to prepare students for rapid global change.

Mishra and Koehler (2006) introduced the concept of Technological Pedagogical Content Knowledge (TPACK), which shows how teachers can integrate technology into the learning process effectively. This study highlights the importance of training for educators to be able to use technology as a tool to support active and collaborative learning.

Noddings (2013) emphasized the importance of character education in building a harmonious and just society. According to him, education must create individuals who are not only intellectually intelligent, but also have empathy, tolerance, and a sense of social responsibility. This study is relevant to the need for inclusive education to deal with socio-cultural diversity in the era of globalization.

Another study by Fullan (2013) revealed that the success of educational transformation is highly dependent on collaboration between the government, educational institutions, teachers, and the community. Fullan highlights the importance of responsive and innovative education policies in supporting education transformation amidst global challenges.

These previous studies provide an important foundation for research that focuses on education transformation to prepare future generations. By referring to this literature, research can identify relevant needs and develop effective solutions to support education transformation.

RESEARCH METHODS

This study uses a qualitative approach that aims to explore in-depth understanding of educational transformation in facing global challenges (Masrukhin, 2014). The qualitative approach was chosen because the researcher wanted to gain more comprehensive insight into the dynamics that occur in the education system, as well as understand the views of various related parties regarding the changes needed to prepare future generations. This approach also gives researchers the freedom to explore various social dimensions, cultural dimensions, and political dimensions that influence education in a global context.

The data in this study were collected through two main techniques, namely interview techniques and document analysis techniques. Interviews were conducted with various education stakeholders, such as teachers, students, principals, and education practitioners. The selection of these stakeholders also aims to obtain a broad perspective on their views on the educational transformation needed to face the challenges of an increasingly complex world. Interviews were conducted using a semi-structured approach, which allows respondents to share their experiences, opinions, and views freely but remain focused on the topic being studied. In this way, researchers can dig deeper into information about how each party views and how each party responds to this global challenge, through the education system.

In addition to interviews, this study also relies on document analysis as an additional method to obtain more objective and structured data. The documents analyzed include national education policies, education curriculum documents, and reports from educational institutions and government agencies related to education transformation. Document analysis aims to understand how education policies in Indonesia respond to global developments and existing challenges, and how these policies are translated into educational practices at the school level.

After data collection is done, the next stage is data analysis. The transcribed interviews are then analyzed by identifying the main themes that emerge from the conversations. The coding process is carried out to group relevant information and find recurring patterns, so that researchers can conclude important aspects that need to be considered in educational transformation. In addition, document analysis is carried out in a systematic and similar manner, to find policy elements that support changes in the education system to be more responsive to global challenges.

This procedure allows researchers to connect the views of education stakeholders with existing policies, and identify strengths and weaknesses in the current education system. Thus, data analysis can provide a clear picture of how education policies and practices interact in preparing young people to face future challenges.

This qualitative approach provides significant advantages in understanding the deeper context and dynamics of educational transformation. Unlike quantitative approaches that tend to rely on numbers and statistics, qualitative approaches allow researchers to explore the meaning contained in each statement, experience, and view conveyed by informants. Education as a complex social process cannot be understood only through numerical data, so this approach is very appropriate for answering research questions related to individual perceptions, understanding, and experiences in facing educational changes at local and global levels (Creswell, 2013).

RESULTS AND DISCUSSION

The findings of this study indicate that there are several key areas that need to be addressed in the transformation of education to face global challenges. Each of these areas is closely related to the needs of future generations to be able to adapt and thrive in an increasingly complex world. The following are the key findings found in this study.:

1. 21st Century Skills Development

21st century education must focus on developing relevant skills to face the challenges of the modern world full of dynamics. One of the main skills that need to be developed is critical thinking (Yusuf, 2018). Critical thinking allows individuals to analyze and evaluate information objectively, and make the right decisions in complex situations (Facione, 2015). This skill is essential in the information age, where data and opinions are abundant and often require deep understanding to distinguish between right and wrong.

In addition to critical thinking, creativity is also an equally important skill. Creativity allows individuals to generate new, innovative ideas in solving problems or creating new products. Today's world, characterized by rapid technological change, requires individuals who are able to think out-of-the-box and face challenges with unconventional solutions (Craft, 2008).

Collaboration and communication are also essential in an increasingly globally connected world. Collaboration allows individuals to work together with diverse teams of people with different backgrounds and expertise, while effective communication helps convey ideas and information clearly and accurately (Saavedra & Opfer, 2012). These communication and collaboration skills are key in a workplace that increasingly prioritizes teamwork and interaction between different cultures. In addition, developing 21st-century skills also includes the ability to adapt to rapid changes, such as digitalization and globalization. In a world that is changing rapidly, the ability to learn independently and continuously adapt is very important. The ever-growing digitalization process requires every individual to not only understand technology, but also to use it to increase efficiency and productivity in various aspects of life (Saavedra & Opfer, 2012). Globalization also requires future generations to be able to adapt to increasingly complex cultural, economic, and social diversity..

Therefore, education must be designed to not only teach academic knowledge, but also develop skills that will prepare young people to face global challenges. This is important so that they are able not only to survive, but also to thrive in an environment full of uncertainty and rapid change.

2. Pembelajaran Technology Integration in Learning

The use of technology in education has been shown to improve the efficiency and quality of learning. With the use of technology, education can be more accessible to students from various locations and backgrounds (Zamrony, 2017). Technology-based learning provides students with the opportunity to learn independently, with unlimited access to various digital learning resources, such as articles, videos, and scientific journals that can be accessed from all over the world. In addition, technology allows students to develop digital skills that are much needed in their professional and personal lives in this increasingly digital world (Mishra & Koehler, 2006).

The integration of technology in learning also opens up opportunities for virtual collaboration. Students can interact and discuss with classmates and teachers through online platforms that support efficient and flexible communication. These platforms allow for more dynamic collaboration, including the use of discussion forums, collaborative workgroups, and more interactive sharing of learning materials. This is important because, in the professional world, the ability to work in geographically dispersed teams and collaborate using technology is a highly sought-after skill (Saavedra & Opfer, 2012).

In addition, e-learning platforms offer flexibility in learning, allowing students to access learning materials anytime and anywhere. This allows them to learn according to their own rhythm and needs. Technology also supports personalized learning, where students can choose the materials or learning methods that best suit their learning style, thereby increasing comprehension and engagement in learning (Mishra & Koehler, 2006).

Thus, the integration of technology in education not only increases access and efficiency, but also enriches students' learning experiences, preparing them for a world that is highly dependent on technology. Therefore, the application of technology in the education system needs to be encouraged to the maximum to ensure that the younger generation is ready to face an increasingly digital-based world.

3. Character Development and Inclusive Attitudes

In addition to mastering academic skills, education needs to pay special attention to character development and inclusive attitudes. Education that focuses on character formation aims to create individuals who are not only intellectually intelligent, but also have integrity, empathy, and a high sense of social responsibility (Khaerunisa & Rasmitadila, 2023). Character education helps students internalize moral and ethical values that will guide them in facing various life challenges (Lickona, 1991).

Inclusive attitudes are an important element in today's education, given the increasingly diverse global society. Future generations must be trained to have empathy, tolerance, and readiness to adapt to differences in culture, religion, and social background. Inclusive education promotes respect for diversity and helps students understand the importance of equal rights and opportunities for all individuals, regardless of differences (Noddings, 2013).

Furthermore, education that emphasizes inclusive values not only helps students understand and appreciate differences, but also encourages them to actively contribute to creating a harmonious and just society. By understanding the concept of social justice, students can become agents of change who work to create a better world for everyone (Banks, 2016). This attitude is essential in building a global community of mutual respect and support.

The integration of character education and inclusive values also requires an experiential learning approach. Activities such as group discussions, simulations, and community service projects can be used to teach students how to work together with others who have different views and backgrounds. This approach allows students to practice the values taught, thereby reinforcing their learning in real-life contexts (Freire, 2000).

Therefore, effective education is education that not only produces individuals who excel academically, but also builds inclusive character and attitudes. This ensures that future generations are not only prepared to face the challenges of the world, but are also able to create a better and more humane world.

4. Responsive Education Policy

Educational transformation requires flexible and responsive policies to changing times. Along with increasingly complex technological developments and socio-economic dynamics, education must be able to adapt and follow these developments (Lubis & Nasution, 2023). One way to achieve this is to ensure that the educational curriculum is continuously updated and adapted to the needs of the ever-evolving world. A relevant curriculum will enable students to develop the skills needed to face global challenges, whether in the fields of technology, economics, or social. Therefore, educational policies must always consider global progress and trends as well as changes in the world of work that require ever-evolving skills (Fullan, 2013).

Governments and educational institutions need to work together to create policies that support innovation, change, and sustainability in education. Collaboration between these various parties is essential to implementing changes that can improve the quality of education (Lestari & Kurnia, 2023). Responsive policies should also include efforts to bridge the gap between education at the local and global levels. In addition, education policies should prioritize the development of skills that are relevant to the demands of the changing world of work, including technical, social, and cognitive skills that will help students adapt to an increasingly dynamic labor market.

Furthermore, responsive education policies must also reflect the diversity of local and global needs. Education must be able to respond to the challenges in different regions, as well as accommodate specific needs, such as the educational needs of minority groups, people with disabilities, or areas with limited resources. With appropriate policies that are responsive to local and global contexts, education can be a very effective tool in preparing future generations to face global challenges and contribute to socioeconomic development at the global level (Fullan, 2013). Through policies that support diversity, innovation, and sustainable development, education will become more inclusive and relevant to the needs of the times, and better able to provide students with the skills needed for a more complex and diverse future.

CONCLUSION

Educational transformation is an essential step in preparing future generations to face increasingly complex global challenges. In this context, there are three main elements that are a priority. First, the development of 21st century skills, such as critical thinking, creativity, collaboration, and communication. These skills are an important foundation for equipping the younger generation to adapt to rapid technological changes and socio-economic challenges.

Second, the integration of technology in learning must be an integral part of education. Technology can improve learning efficiency, expand access to education, and build students' digital competencies. This allows students to learn independently and be better prepared to face a technology-based world.

Third, education must focus on developing inclusive character and attitudes. Education is not only about academic mastery, but also about forming individuals who are empathetic, tolerant, and adaptive. Inclusive attitudes help students understand and appreciate diversity, and contribute to creating a harmonious and just society.

In addition, educational policies that are responsive to changing times are a very important supporting element. This policy must be able to create an innovative and flexible education system, designed to face future challenges.

The overall findings of this study provide deep insights for policy makers, educators, and other stakeholders to rethink and design a more holistic education system. With a planned transformation, the future generation will not only be able to face global challenges but also become agents of change to create a better world.

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