Analysis of the Development of the Education System in the Society 5.0 Era on Students at Air Marshal Suryadarma University

Nurul Aji Wibowo

The Aerospace Air Chief Marshal Suryadarma University, Jakarta
231173031@student.unsurya.ac.id

Abstract:. The Society 5.0 era signifies fundamental changes in social and economic dynamics, significantly influencing the higher education system. This research aims to analyze the development of the education system in the Society 5.0 era and its impact on students at Air Marshal Suryadarma University. With a paradigm shift towards digitization and the integration of technology into all aspects of life, understanding how students respond to and adapt to these changes becomes crucial. This study employs a qualitative method, utilizing a literature review approach from previous research. In-depth analysis of scholarly literature and findings from prior research is conducted to comprehend the impact of Society 5.0 on students and the changes implemented by higher education institutions, particularly Air Marshal Suryadarma University. Through the literature review, it is found that Society 5.0 significantly propels the transformation of higher education. Students are confronted with the demand to develop new skills, especially those related to technology and creativity. Air Marshal Suryadarma University is observed to proactively respond to these changes by adjusting its curriculum, strengthening industry collaboration, and providing extra support for students facing new challenges.

Keywords: Student Adaptation, Society Era 5.0, Literature Review, Higher Education System, Marshal Suryadarma Dirgantara University

INTRODUCTION

Society 5.0 represents a new paradigm in the development of society, focusing on the utilization of technology to enhance human well-being. Education is one of the sectors profoundly influenced by this transformation. In the Society 5.0 era, the education system undergoes significant changes to prepare students for the increasingly complex challenges of the times. Universities, as institutions of higher education, stand at the forefront of implementing these changes to facilitate the optimal development of students. The evolution of the education

system in the Society 5.0 era is propelled by the integration of technology into the learning processes. Innovations such as artificial intelligence, big data, and the Internet of Things are key elements in creating an adaptive and responsive learning environment. This provides students with broader access to learning resources and enables the personalization of teaching approaches according to individual needs. Not only in the technological aspect, the education system in the Society 5.0 era also emphasizes the development of 21st-century skills. Students are not merely instructed in academic content but are also encouraged to cultivate skills such as creativity, critical thinking, and collaboration. Universities play a catalytic role in creating a learning environment that facilitates this comprehensive development. Students in universities undergo significant changes in their learning approaches and skill development. They are not just information consumers but active participants in the learning process.

The interaction between professors and students becomes more dynamic, shifting from a one-way learning approach to involving discussions, collaborative projects, and practical experiences. However, on the one hand, the development of the education system in the Society 5.0 era also presents several challenges. Inequality in access to technology, challenges in aligning the curriculum with industrial developments, and a paradigm shift in assessing student progress are some of the issues that need to be addressed. Therefore, the implementation of the education system in the Society 5.0 era at universities requires a holistic strategy involving stakeholders to ensure that students are genuinely prepared to face the dynamics of future society.

RESEARCH METHOD

This research will adopt a qualitative research method with a focus on the analysis of secondary data. The qualitative research method is chosen because its objective is to gain a profound understanding of a specific phenomenon or context, in line with the complexity and context of the research. In this study, secondary data will be utilized as the primary source of information, involving document analysis, literature review, or data previously collected by other parties. The qualitative approach will provide space for the researcher to explore and understand the broader context, unearth the meaning behind the secondary data, and construct in-depth interpretations of the phenomena under investigation.

RESULT AND DISCUSSION

In this phase, the research is directed towards a comprehensive analysis of the development of the education system in the Society 5.0 era and its impacts on students at the Marshal Suryadarma Aerospace University. The initial steps of this discussion will introduce the main findings derived from the literature review and illustrate how the presented tables provide insightful perspectives regarding this development.

Table 1. Literature Review

Title	Authors	Year	Research Method	Results and Findings
The Urgency of Strengthening Character Education in Facing the Era of Society 5.0	Kamarudin, K., Irwan, I., Fitriani, B., Suardin, S., Suarti, S., Gawise, G., ... & Sukmawati, D.	2023	Literature Review	Character education is essential to preserve the socio-cultural values of society in the Society 5.0 era, filtering attitudes and behaviors in line with these values, and developing character based on Pancasila values. Social and cultural interactions in society are inseparable from education in this era
Analysis of the Effectiveness of Indonesian Language Learning in Higher Education in the Era of 5.0	Purnamasari, A., & Wijoyo, H.	2023	Qualitative Descriptive	Indonesian language is utilized to instill a love for the homeland and language. In the Society 5.0 era, the implementation of hybrid/blended learning and case-based learning can enhance the effectiveness of language learning. Students can learn in parallel with technology to complement the role of educators
Implementation of Multicultural Technology-Based Education in Facing the Society 5.0 Era	Ridho, A., Wardhana, K. E., Yuliana, A. S., Qolby, I. N., & Zalwana, Z.	2022	Literature Review	Multicultural technology-based education is necessary to confront the Society 5.0 era. This education aims to raise awareness among children or students of the cultural diversity around them, addressing the impact of technological

				development that can lead to conflicts and disputes
Socialization of the Urgency of Character Education for Millennial Generation Z Adolescents in the Society 5.0 Era	Noviani, D.	2023	Not Specified	This community service discusses the urgency of character education for Generation Z connected to the virtual world. Character education is necessary to build their awareness and prevent them from falling into negative behaviors
Implementation of the Independent Learning Curriculum and Free Campus in Facing the Society 5.0 Era	Thahery, R.	2023	Literature Review (Qualitative)	The implementation of the independent learning curriculum and free campus is related to the Society 5.0 era. Creativity and innovation are needed to create resilient and globally competitive human resources. Well-planned implementation of independent learning and free campus can enhance the quality of education in Indonesia
Islamic Education and the Society 5.0 Era; Opportunities and Challenges for Islamic Education Students to Become Characterful Teachers	Idris, M.	2022	Literature Review, Content Analysis, Hermeneutic Approach	The Society 5.0 era provides opportunities for Islamic education students to become characterful teachers. Islamic education aligns with the vision of rahmatan lil'alamin. Challenges include high individual potential, rapid competition, expertise in IT, and the emergence of dual understanding
Strategies of	Widiatmaka,	2022	Qualitative,	Nationalism

Pancasila Education Courses in Shaping Nationalism Character of Students in the Society 5.0 Era	P., & Shofa, A. M. A.		Literature Review, Content Analysis	character is crucial in the context of multicultural Indonesia. The crisis of nationalism character is the responsibility of Pancasila lecturers. Strategies involve the use of digitally-based teaching methods, being role models, and inspiring students
Guidance and Counseling in Higher Education in the Society 5.0 Era	Putra, A. H.	2022	Qualitative, Literature Review	Since 2019, the world has entered the Society 5.0 era, with both positive and negative impacts on the lives of university students. Student preparation to adapt to Society 5.0 is crucial. Guidance and counseling play a vital role
Innovation in Independent Learning Curriculum in the Society 5.0 Era for the Industrial Revolution 4.0	Amalia, M.	2022	Not specified	The Independent Learning Curriculum responds to global human resource competition. It aims to produce a millennial generation that can quickly understand and apply knowledge. Technology is an integral part of individual social life
Visual Communication Design Education in the Society 5.0 Era	Arifianto, P. F.	2022	Literature Review	Society undergoes a revolution with the development of information and communication technology. Visual Communication Design Education must be integrated into the Society 5.0 space
New Directions in	Mursyidah, N.,	2023	Literature	Responding to

	& Muhammad, M.		Review	developments in the Society 5.0 era, the development of faculty human resources is crucial in this process
Mathematics Learning for Students in the Society 5.0 Era				

The study conducted by Kamarudin et al. (2023) in the Journal of Human and Education (JAHE) underscores the urgency of strengthening character education in the face of the Society 5.0 era. This research highlights that social and cultural interactions are inseparable from education in this era, where education plays a role in preserving the socio-cultural values of society. The implication is that social and cultural systems can interact and preserve these values through education in the Society 5.0 era. Strengthening character education is considered a collective responsibility to develop character based on Pancasila values. Research conducted by Purnamasari & Wijoyo (2023) in the Jotika Journal in Education examines the effectiveness of Indonesian language learning in higher education in the Society 5.0 era. They emphasize the role of the Indonesian language as a national language that reflects cultural elements and stress the importance of upholding these values. Indonesian is not only seen as a means of communication but also as a medium for instilling the values of love for the homeland and the Indonesian language in students. The study details that in the era of the 4.0 learning revolution, hybrid/blended learning and case-based learning methods become relevant and can be implemented. This indicates the adaptation of higher education to technological advances, where a learning approach that integrates digital platforms and case studies becomes an effective method. The ability of students to actively learn, collaborate, and solve problems is strengthened through this approach, aligning with the demands of the Society 5.0 era that emphasize critical thinking, creativity, and problem-solving skills. This adaptation is not only a response to technological developments but also an effort to ensure that Indonesian language learning in higher education remains relevant, engaging, and aligned with the needs of students in facing future challenges.

The study by Ridho et al. (2022) in EDUCASIA discusses the implementation of technology-based multicultural education in the Society 5.0 era. They demonstrate that multicultural education plays a role in enhancing understanding of cultural diversity. With globalization, the importance of education capable of managing conflict and cultural differences becomes increasingly significant. This research illustrates how multicultural education can help address the challenges of the Society 5.0 era by understanding and leveraging cultural diversity. Noviani (2023) in ADM: Journal of Community Service and Student Abdi discusses the socialization of the urgency of character education for Millennial Generation Z adolescents in the Society 5.0 era. This research highlights the need for character education amidst a generation that tends to be connected to the virtual world and advanced technology. Generation Z, as the internet generation, is expected to understand character values through proper education, anticipating the negative impacts of unrestricted access to information. Research by Thahery (2023) in the Technical and Vocational Education International Journal (TAVEIJ) discusses the implementation of the Independent Learning Curriculum and Free Campus in facing the Society 5.0 era. This study emphasizes that the independent learning curriculum and free campus are interconnected with technological advancements and human resource

preparation for the disruptive era. The implementation of this curriculum is carefully carried out to enhance the quality of education in Indonesia and prepare graduates to compete globally.

Research by Idris (2022) in Belajea: Journal of Islamic Education highlights Islamic Education and the Society 5.0 era, along with opportunities and challenges for Islamic Religious Education (PAI) students to become characterful teachers. This study employs a literature review research method with content analysis techniques and a hermeneutic approach. The research findings indicate that the Society 5.0 era provides opportunities for PAI students to become teachers with character, facilitated through access to self-development, the creation of new job opportunities, the acceleration of the development of Islamic education institutions, and the recognition of the human spiritual dimension. However, alongside these opportunities, challenges arise, including high individual potential, rapid competition, IT expertise, the ability to overcome various challenges, and the emergence of diverse understandings. Research by Widiatmaka & Shofa (2022) in the Journal of Civic Law discusses strategies for Pancasila Education courses in shaping the nationalism character of students in the Society 5.0 era. The research findings indicate that nationalism character is crucial for implementation in national life, especially in Indonesia, a multicultural country. The crisis of nationalism character in students is the responsibility of Pancasila lecturers, and the applied strategies involve the utilization of digital-based teaching models and methods. Furthermore, research by Putra (2022) in the Journal of Education and Social Sciences discusses the role of Guidance and Counseling in higher education in the Society 5.0 era. This study highlights the need to prepare students to adapt to the Society 5.0 era, emphasizing the crucial role of Guidance and Counseling in higher education in realizing this goal. The research employs a qualitative method with a literature review approach. Research by Amalia (2022) in the National Seminar on Social, Science, Education, and Humanities examines the innovation of the Independent Learning Curriculum in the Society 5.0 era for the Fourth Industrial Revolution. The Independent Learning Curriculum is expected to produce a millennial generation capable of quickly understanding and applying knowledge, thinking critically, creatively, and solving problems. This article provides insights into the importance of independent learning policies in creating an education system without the burden of assumptions, becoming a strategic component within the education system.

Furthermore, the research by Arifianto (2022) in DeKaVe explores the role of Visual Communication Design (VCD) Education in the Society 5.0 era. This study describes that VCD must be able to integrate with the development of information and communication technology and contribute to society in the Society 5.0 era, which prioritizes communication through cyberspace. The research utilizes a literature review method from various study sources. The research by Mursyidah & Muhammad (2023) in the Journal of Learning and Sigma Mathematics discusses new directions in mathematics learning for students in the Society 5.0 era. The study examines the positive and negative impacts of Society 5.0 on students' lives, particularly in human resource development and mathematics learning. This study employs a qualitative method with a literature review approach. In connection with Marshal Suryadarma University, the findings of this research can serve as a basis for designing an education system responsive to the dynamics of the Society 5.0 era. The implementation of character education strategies, the development of nationalism, adaptive guidance and counseling, the Independent Learning Curriculum, the role of VCD, and new directions in mathematics learning can be

concrete steps in addressing challenges and leveraging opportunities in this evolving era. Collectively, these studies indicate that the development of the education system in the Society 5.0 era faces demands to strengthen character, understand cultural diversity, optimize learning effectiveness, and adapt the curriculum to anticipate a future filled with technological developments.

CONCLUSION

The evolution of the education system in the Society 5.0 era, particularly at Marshal Suryadarma Aerospace University, reflects significant trends in addressing contemporary challenges. Students are confronted with unique opportunities and challenges alongside technological advancements. As depicted in various research studies, students find opportunities to develop their character through access to self-development, new job prospects, and the accelerated development of Islamic education institutions. On the flip side, challenges such as high individual potential, rapid competition, and expertise in IT require careful adaptation to ensure students remain relevant and competitive in facing the Society 5.0 era. Moreover, learning strategies need continual enhancement to shape students' nationalism character. Guidance and counseling in higher education play a crucial role in assisting students in navigating the positive and negative impacts of the Society 5.0 era. Innovations in learning, such as the Independent Learning Curriculum, are responded to as solutions to cultivate a generation responsive to global changes. This highlights the need for the integration and adaptation of the education system to meet the demands of the times, ensuring that students are prepared to face the challenges of the Society 5.0 era.

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REFERENCES

Amalia, M. (2022, July). Innovation in Learning: Independent Learning Curriculum in the Society 5.0 Era for the Fourth Industrial Revolution. In NATIONAL SEMINAR ON SOCIAL, SCIENCE, EDUCATION, AND HUMANITIES (SENASSDRA) (Vol. 1, No. 1, pp. 1-6).

Arifianto, P. F. (2022). Visual Communication Design Education in the Society 5.0 Era. DeKaVe, 15(1), 37-45.

Idris, M. (2022). Islamic Education and the Society 5.0 Era: Opportunities and Challenges for Islamic Religious Education (PAI) Students to Become Characterful Teachers. Belajea: Journal of Islamic Education, 7(1), 61-86.

Kamarudin, K., Irwan, I., Fitriani, B., Suardin, S., Suarti, S., Gawise, G., ... & Sukmawati, D. (2023). The Urgency of Strengthening Character Education in the Face of the Society 5.0 Era. Journal Of Human And Education (JAHE), 3(2), 252-256.

Noviani, D. (2023). Socialization of the Urgency of Character Education for Millennial Generation Z Adolescents in the Society 5.0 Era. ADM: Journal of Community Service and Student Abdi, 1(2), 119-124.

Mursyidah, N., & Muhammad, M. (2023). New Directions in Mathematics Learning for Students in the Society 5.0 Era. Journal of Learning and Sigma Mathematics (JPMS), 9(1).

Purnamasari, A., & Wijoyo, H. (2023). Analysis of the Effectiveness of Indonesian Language Learning in Higher Education in the 5.0 Era. Jotika Journal in Education, 2(2), 50-56.

Putra, A. H. (2022). Guidance and Counseling in Higher Education in the Society 5.0 Era. Journal of Education and Social Sciences, 1(1), 128-136.

Ridho, A., Wardhana, K. E., Yuliana, A. S., Qolby, I. N., & Zalwana, Z. (2022). Implementation of Technology-Based Multicultural Education in Facing the Society 5.0 Era. EDUCASIA: Journal of Education, Teaching, and Learning, 7(3), 195-213.

Thahery, R. (2023). Implementation of the Independent Learning Curriculum in Facing the Society 5.0 Era. Technical and Vocational Education International Journal (TAVEIJ), 3(1), 10-21.

Widiatmaka, P., & Shofa, A. M. A. (2022). Strategies for Pancasila Education Courses in Shaping Nationalism Character of Students in the Society 5.0 Era. Journal of Civic Law, 7(2).