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CURRICULUM DEVELOPMENT AND IMPLEMENTATION: IDENTIFYING KEY GAPS AND CHALLENGES IN EDUCATION SYSTEMS

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ABSTRACT

This literature review examines the challenges and gaps in curriculum planning, development, implementation, and evaluation within contemporary education systems. While curriculum works as the foundation of education, modeling student learning and preparing them for personal and professional success, there are constantly ongoing issues affecting its effectiveness. These contain limited teacher involvement in curriculum design, a shortage of curriculum experts, insufficient contextualized teacher support, and inadequate alignment with employment and industry needs. Another difficulty in implementation includes having time constraints, resource limitations, financial barriers, and professional development gaps, further complicate the realization of educational goals. Moreover, evaluation processes often fail to ensure curricula remain responsive to real-world demands and future workforce requirements. Closing the existing gaps will demand inclusive, well-resourced and evidence-based approaches to developing curriculum that incorporates views of teachers, technological integration, and industry relevance. Recommendations indicate the need for cooperation between educators and policymakers among others in creating an education system that is responsive, inclusive, and able to prepare students to meet needs in the future.

Introduction

The process of gaining values, information, and skills is called education. Curriculum is a planned educational experience that includes academic subjects and learning activities designed to achieve specific educational outcomes (Baharuddin et al., 2024). It's a continuous process that molds people and communities (Kerševan, 2024). This makes people the ability to think critically, solve problems, and come up with new ideas. (Bustillo, 2023) . A high-quality education is essential for both individual and community development since it produces knowledgeable citizens, competent professionals, and moral leaders, By connecting educational outcomes to accountability and evaluation criteria, curricula are created to transmit pertinent competencies. The curriculum serves as a structured plan within education, outlining subjects and experiences necessary for students to achieve educational goals (Indah, 2021). The foundation of education is the curriculum. Students' learning experiences are shaped by it, giving them the resources they require to thrive in their academic, social, and personal lives. The curriculum guarantees that educational institutions satisfy the many requirements of students while equipping them to prosper in a world that is changing quickly by providing structure, consistency, and relevance.

To provide quality curriculum, educational institutions follow curriculum development stages as it involves the systematic planning, designing, and refining of educational programs. This stages ensures that educational institutions provide relevant, high-quality, and effective learning experiences that align with both institutional goals and broader societal needs. Curriculum planning, development, implementation, and evaluation form the backbone of education systems globally for achieving educational goals and fostering student learning. Despite the extensive literature surrounding these topics, significant challenges and gaps persist that hinder effective curriculum practices.

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This review aims to explore the challenges and gaps in curriculum development and implementation in education. Taking into account the existing research, we would like to focus on the problems educators, schools, and policymakers are confronted with while constructing and implementing effective curricula. Its main purpose is to offer insights that can help improve education, making it more inclusive, relevant, and better suited to the needs of students and the world around them. The following are the noted key gaps and challenges on curriculum planning and development

Curriculum Planning and Development

• Limited Teacher Involvement:

Teachers have been excluded from being involved in the curriculum development process, where they are seen as implementers and not involved in contributing to the curriculum. Due to this form of exclusion, it leads to confusion, and this disorganization negativity hampers the effective implementation of the curriculum because the teachers will be able to understand the students' needs better. (Luo, 2021).

Curriculum planning comprises multiple stakeholders, including administrators, students, and parents. The absence of input from these other groups could result in a narrow view of curriculum effectiveness. By involving such viewpoints, the general approach of the school curriculum planning would have been well represented to all members of the school community. (Nur, 2022)

Garces, (2017) covers the perception of the pre-service teachers about the curriculum, an in-depth study of the experiences and problems of the teacher trainers is missing. Understanding how teachers' deals with the conflicts between complying with national guidelines and addressing the needs of pre-service teachers would provide a more comprehensive perspective.

• Need for Contextualized and Sustainable Teacher Support:

Effective curriculum planning must consider the specific contexts in which teachers work and ensure that professional support is sustainable over time. This approach is vital for helping teachers provide long-lasting, beneficial instruction to their students (Mabunda, 2023).

Staff Training and Preparedness for Technology-Enhanced Learning must be done to be well-trained to adapt to the technology-driven learning environment. Further research could investigate the training needs and preparedness of faculty members in delivering technology-enhanced curricula. (van Vuuren et al., 2023)

There is limited exploration of the role of faculty development in adapting to new curriculum frameworks (Aslam et al., 2024) Research could investigate how faculty training and support systems influence the success of curriculum changes, particularly when transitioning to competency-based education models.

• Relevance to Employment and Terminal Competencies:

Curriculum development should ensure that students acquire knowledge and skills relevant to future employment. A curriculum aligned with workforce needs can foster competitiveness, productivity, and readiness for the labor market (Thoriq, 2023; Mahmudah & Putra, 2021).

Integrated approaches to curriculum design are believed to enhance student engagement by making learning more relevant and connected to real-world issues. By breaking down subject silos, students can explore complex concepts from multiple perspectives, leading to deeper understanding and the development of critical thinking (Moss et al, 2019)

Overall, these gaps illustrate the need for more inclusive, well-resourced, expert-driven, and employment-oriented curriculum planning to meet the demands of modern education.

Curriculum Implementation

• Time Constraints and Student Readiness:

Teachers often struggle to cover all requisite competencies due to limited instructional time. Moreover, there is a mismatch between the assumed prerequisite skills in the curriculum and the students' actual skills which slows down learning and impedes effective curriculum delivery. Additionally, many of the students are not well-prepared for the curriculum content, intensifying these challenges (Robertson et al., 2021).

Technological and Resource Limitations:

The lack of sufficient technological resources and instructional materials is a significant barrier to effective curriculum implementation. This is particularly pronounced in developing countries, where there is limited access to technology-assisted instructional tools, professional development opportunities for online teaching, and research funding for curriculum development (Barrot, 2020; Mafugu, Tafirenyika & Abel, 2022; Abragan et al., 2022).

• Financial Constraints:

Many institutions lack adequate financial resources, limiting their ability to procure necessary materials and provide proper training for effective curriculum implementation (Fasinro, 2024).

Professional Development Needs:

Many of them face challenges mainly because of insufficient content and pedagogical knowledge when trying to introduce new curricula. Continuous professional development is, thus, essential to ensure that teachers are adequately equipped to handle the methodologies and instruments introduced by new curricula. Teachers' Training opportunities are necessary to bridging the gap between the planned and implemented curriculum (Fasinro, 2024; Elfira, 2023).

Bongco, (2017) Teachers face difficulties in adapting to the new curriculum due to inadequate training and resources. The rapid pace of reforms creates confusion, making it challenging for teachers to fully understand and implement the policies effectively. Teachers struggle to balance the high expectations set by the curriculum policies with the practical realities of their classrooms. This includes managing limited resources, large class sizes, and varying student needs. This study concludes with the idea that the success of curriculum implementation depends largely on how teachers understand and implement curriculum polices. Therefore, emphasis must be given to making it certain that our teachers are provided with the resources and support that they need in order to traverse a world that they are only starting to learn to live in.

• Generation and Technology Gaps:

A generational divide between fresh graduates and more senior teachers often results in discrepancies in technological proficiency. Younger teachers may be more comfortable with technology, while older teachers may require additional training to incorporate it into their teaching (Elfira, 2023).

• Alignment with Industry and Employment Needs:

Skills gap is the most important drawback for the implementation of curriculum. The competencies of students lag behind the needs of the workforce. Educational institutions, especially in developing economies, struggle to align their curricula with industry requirements that leads to a growing demand for reskilling (Barrot, 2020).

• Institutional and Curriculum-Related Barriers:

Institutional constraints, such as availability of resources, and also lack of support from different stakeholders, further complicate curriculum implementation. In addition, curriculum-related issues include misalignment with educational goals and ineffective curriculum design that does not completely support student learning needs (Aslam, 2024).

These gaps highlight the need for better resource allocation, teacher training, technological integration, and curriculum alignment with both educational goals and industry demands to ensure successful curriculum implementation.

Curriculum Evaluation

Industry-Education Alignment:

An existing gap persists between industrial requirement and the competencies of graduates from industry. The deficiency of alignment between education systems and emerging job markets is a persistent issue. This gap emphasizes the need for closer collaboration between educational institutions and industry to ensure curricula meet the evolving demands of the work-force (Barrot, 2020; Wanyeki et al., 2017; Naidu & Narayan, 2021). This is also the same with the study of Oviawe (2017), that there are skill gaps due to inadequate industrial training duration and mismatched job placements during internships. Conflicts exist between school teachings and actual job practices, leading to insufficient training experiences for students. Many institutions also struggle with low-quality training environments and resources, which impedes the development of necessary skills for the job market.

To bridge this gap, according to Balada, (2024), designed an intervention plan that focuses on enhancing non-technical skills like time management and communication, technical skills like computer programming and food preparation, and behavioral skills like persistence and stress management. This plan aims to align academic programs with current industry needs and ensure students graduate with job ready skills. The researcher also recommends activities to improve students' workplace readiness and technical proficiency based on industry standards. The researcher suggests schools with TVL tracks and home economics strands propose activities to improve various skills. By implementing the intervention plan and addressing the gaps between curriculum and industry needs, schools can better equip students for the job market. The study's results can be disseminated through various channels to stakeholders like teachers, school heads, and curriculum specialists

Saong et al. (2023) also argued that ensuring all students acquire skills required to adapt to the rapidly changing conditions and demands of the labor market is. Universities needed to think about how they prepare their graduates to be employable. Higher education institutions needed to equip students to work in jobs that did not yet exist, use cutting-edge technologies, and find solutions to challenges no one had thought of. However, there was some debate about whether university courses adequately prepare students for 21st-century workplace skills to prepare them for the real contexts involved in their professional practice

Real-World Relevance:

Curricula and courses often fail to adapt to the complex nature of real-world work environments. There is a call for curricula that produce meaningful learning outcomes and that are responsive to the needs of the industry, ensuring students are equipped with skills that are directly applicable in the workplace (Wanyenki, 2017 and Naidu & Narayan, 2021).

Bridging the gap between what the industry requires and what the academe produces remains elusive (Volzer et al., 2021). This talks about a problem that many people in education and business are facing. This problem is about the difference between what companies need from workers and what schools and universities are teaching. The skills gap refers to the competencies that the industry needs but do not match with the competencies that graduates possess.

Insufficient Program Evaluation:

The lack of thorough evaluation of curriculum effectiveness through program assessments is a significant gap. Program evaluation is critical in determining whether education has strength, weaknesses, and even overall effectiveness. This information is very critical in making informed decisions about which areas need improvements. Absence of this data may lead to difficulty in making informed decisions about improvements which hampers efforts to enhance the quality of education and ensure student success (Nevenglosky, n.d.).

Preparedness for Future Demands:

The current educational system often fails to prepare students effectively for the future demands of society. It is required to design a curricula that develop critical thinking, innovation, problem-solving, emotional intelligence, and communication skills—qualities that are necessary for success in the modern world. The focus should shift from memorization to developing competencies that align with the real-world challenges students will face after graduation (Barrot, 2020).

These gaps highlight the need for a more dynamic, responsive, and evidence-based approach to curriculum evaluation. Educational institutions must work in partnership with industries to develop curricula that are not only aligned with current job market needs but also foster the skills and attitudes students will require in the future.

Conclusion

In conclusion, the general concerns emphasized in the literature are numerous major problems that arise in curriculum planning, development, implementation, and evaluation. In these problems, there are those on the participation of teachers in curriculum development, the financial factor, the lack of curriculum experts, and the need for continuous support-to really know what is wanted by all teachers across different contexts. Apart from these obstacles, another challenge to curriculum implementation is the skill attainment gap between students and the workforce. To overcome such hurdles, it is essential that teachers be given better professional development opportunities, access to maximum technology and resources, and curricula made even more industry-relevant.

Finally, it is an appeal for a much more inclusive and appropriately supported process of curriculum development-in which teachers are involved, classrooms become better attuned to the needs of their students, and students are better prepared for the requirements of a future workplace. In that sense, we might best see an education system that truly succeeds in its bid to help prepare children for the realities of a changed world.

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References

- [1] Abragan, F. Q., Abarcas, V., Aquino, I. M. & Bagongon, R. E. (2022). Research Review on K-12 Curriculum Implementation in The Philippines: A Generic Perspective. European Journal of Educational and Social Sciences, 7 (1), 1 – 8. https://www.doi.org/10.5281/zenodo.7272126
- [2] Alnaji, A. O. (2022). Curriculum Planning model in general education. Journal of Curriculum and Teaching, 11(5), 275. https://doi.org/10.5430/jct.v11n5p275
- [3] Amanah, N., Mujahidin, E., & Andriana, N. (2022). Analysis of curriculum planning by using importance performance analysis technique. AL-

IDARAH JURNAL KEPENDIDIKAN ISLAM, 12(2), 173-182. https://doi.org/10.24042/alidarah.v12i2.13529

- [4] Anastasopoulou, E., Katsonis, N., Stavrogiannopoulou, M., Travlou, C., Mitroyanni, E., & Tsogka, D. (2024). The role of ICT in enhancing modern teaching practices in elementary Schools. Technium Social Sciences Journal, 60, 38–45. https://doi.org/10.47577/tssj.v60i1.11440
- [5] Apsari YA. Teachers' Problems and Solutions in Implementing Curriculum 2013. Am J Educ Lang Lit Cult. 2018;3(1):11-23.
- [6] Aslam, K., Khan, R. A., Aslam, M. A., Javed, K., Kamran, R., & Raja, A. A. (2022). Faculty perspective on the challenges faced during implementation of integrated curriculum. Journal of Shalamar Medical & Dental College - JSHMDC, 3(2), 159–166. https://doi.org/10.53685/jshmdc.v3i2.121
- [7] Aslam, S.; Alghamdi, A.A.; Abid, N.; Kumar, T. Challenges in Implementing STEM Education: Insights from Novice STEM Teachers in Developing Countries. Sustainability 2023, 15, 14455. https://doi.org/10.3390/su151914455
- [8] Aslam, P., Mushtaq, Q., Noor, F., Maqbool, S., Khan, N. Y., & Sarfraz, J. (2024). The Literature Review on Curriculum Implementation Problems. Journal of Health and Rehabilitation Research, 4(2), 497–501. https://doi.org/10.61919/jhrr.v4i2.844
- [9] Asio, J. M., Mendoza, K. J., & Soriano, I. (2022). The General Education Curriculum in the Philippines: A Policy analysis. International Journal of Law and Public Policy (IJLAPP), 4(2), 66–74. <u>https://doi.org/10.36079/lamintang.ijlapp-0402.403</u>
- [10] Atta IS, El-Hag MA, Ihab Shafek S, Al-Ghamdi HS, Alghamdi TH. Drawbacks in the implementation of an integrated medical curriculum at medical schools and their potential solutions. Education in Medicine Journal. 2020;12(1): 29–42. https://doi.org/10.21315/eimj2020.12.1.4
- [11] Baharuddin, B., Isnaini, E., & Lusiana, L. (2024). Islamic Education Curriculum That is Relevant to the Challenges of the Times. East Asian Journal of Multidisciplinary Research, 3(3), 1045–1060. https://doi.org/10.55927/eajmr.v3i3.8103
- [12] Balada, Arjay & Lo, Nomelito, Mismatch Between Educational Curriculum And Industry Skill Demands: Basis For An Intervention Plan, Journal of Engineering, Management and Information Technology Vol. 03, No. 04 (2025) 319-330, DOI: DOI:10.61552/JEMIT.2025.04.010 - http://jemit.aspur.rs
- [13] Bano, Romana, (2022). 10. Examine the importance of teachers' participation in curriculum development. doi: 10.58622/vjes.v2i1.9
- [14] Bhambra., Avninder, S., Johnson. Donna, M (2024). 7. Curriculum design. doi: 10.4324/9781003383994-3
- [15] Barrot, J.S. (2023). Curriculum 5.0 for the Twenty-First Century Higher Education: A Way to Move Forward. In: Lee, W.O., Brown, P., Goodwin, A.L., Green, A. (eds) International Handbook on Education Development in Asia-Pacific. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-2327-1_134-1</u>
- [16] Bongco, Roxanne T., De Guzman, Digna M. (2022) Teachers Adapting to Curricular Change: Basis for Teacher Education Curriculum Review Asia Pacific Journal of Advanced Education and Technology Volume 1, Issue 3, September 2022 / P- ISSN 2815 – 245X / E – ISSN 2815 – 2468 / www.apjaet.com https://orcid.org/0000-0002-6868-7561
- [17] Brown Colin R. and Prendergast, Lindsay J. Improving Academic Performance through a Unique Curriculum Development Process. Fall, 2020 Journal for Leadership and Instruction. Page 33-37
- [18] Bullock, Margaret I. The Development of Approaches to Curriculum Planning to Meet Academic and Professional Objectives. The Australian Journal of Physiotherapy, Vol. 04, No, 4, 1988, page 203-208
- [19] Campos, G. R. (2023). A glimpse of the past and the present: A generic review of the Philippine educational system and the K+12 curriculum implementation. American Journal of Education and Technology, 2(2), 84–92. https://doi.org/10.54536/ajet.v2i2.1601
- [20] Bustillo, Eduardo Velez & Patrinos, Harry A. (2023) Why is education more important today than ever? Innovation? World Bank Blogs. https://blogs.worldbank.org/en/education
- [21] Castro-Garces, A. Y., & Arboleda, A. A. (2017). Bridging the Gap between Curriculum Planning Policies and Pre-service Teachers' Needs. English Language Teaching, 10(12), 50. https://doi.org/10.5539/elt.v10n12p50
- [22] Duran, V., & Mertol, H. (2020). Kaizen Perspective in curriculum development. Asian Journal of Education and Training, 6(3), 384–396. https://doi.org/10.20448/journal.522.2020.63.384.396
- [23] Elfira, Bhayangkara, Athalla Nauval, Triana, Febiolola Milinia (2023) Word of Mouth Strategy Combined Andhab Asor as Problem Solving in Planning and Organizing Problems of Curriculum Development International Conference on Research in Education and Science. May 18-21, 2023
- [24] Esfandiyari, Y., y Nourabadi, S. (2020). Evaluation of Curriculum Localization Approach in Master's Degree of Curriculum Planning Filed Based on Klein Model. Propósitos Y Representaciones, 8(SPE3), e772. https://doi.org/10.20511/pyr2020.v8nSPE3.772
- [25] Fasinro, K. (2024). Curriculum implementation: Challenges and the prospect of education resource centres to aid effective implementation. African Educational Research Journal, 12(1), 1–5. https://doi.org/10.30918/aerj.121.23.102
- [26] Febriana, B. W., Arlianty, W. N., Diniaty, A., & Fauzi'ah, L. (2017). An analysis of curriculum implementation on high schools in Yogyakarta. AIP Conference Proceedings. https://doi.org/10.1063/1.5015995
- [27] Glaesser, Judith, (2023). 17. Curriculum and competences. doi: 10.1016/b978-0-12-818630-5.03052-9
- [28] Gündüz, G. F., & DemiR, E. B. K. (2020). Evaluation of 2017 Information Technology and Software course Curriculum according to Teachers' views: The case of Eskişehir. Malaysian Online Journal of Educational Technology, 8(3), 59–83. https://doi.org/10.17220/mojet.2020.03.004
- [29] Haquea, Aaisha & David Solomon Arulraj, Effective curriculum implementation for optimal teaching and learning experience: a study from a private school in Dubai, International Journal of Curriculum and Instruction 15(1) (2022) 1–20
- [30] Hiep, Hans-Dieter, A.,. (2023). 36. What is an education?. doi: 10.59350/ej3j0-jb103
- [31] Hoang, Anh-Duc, Nguyen, Yen-Chi, Nguyen, Le-Kim-Ngan et al. (No Date), The case of primary schools in Vietnam, EdLab Asia Educational Research and Development Centre, Hanoi, Vietnam
- [32] Indah, Rizki, Ramadani., Firman, Firman., Riska, Ahmad. (2021). 1. Basic concepts and curriculum theory in education. Journal of school counseling, doi: 10.23916/08741011
- [33] Jagannathan, S. (Ed.). (2021). Reimagining Digital Learning for Sustainable Development: How Upskilling, Data Analytics, and Educational Technologies Close the Skills Gap (1st ed.). Routledge. https://doi.org/10.4324/9781003089698
- [34] Karakuş, G. (2021). A literary review on curriculum implementation problems. Shanlax International Journal of Education, 9(3), 201–220. https://doi.org/10.34293/education.v9i3.3983

- [35] Kibaara, Tarsilla. (2022). 39. Relationship Between Purpose, Types and Elements of Instruction and Assessment. Advances in Social Sciences Research Journal, doi: 10.14738/assrj.95.12465
- [36] Kelly, Nick, Wright, Natalie, Dawes, Les, Kerr, Jeremy, Robertson, Amanda (2019) Co-design for Curriculum Planning: A Model for Professional Development for High School Teachers. Australian Journal of Teacher Education, Vol. 44, Issue 7 Article 6
- [37] Kerševan, Ana Frangež, Miklič, Urška Miklič (2023) The Path to Lifelong Learning: Embrace a World of Possibilities. <u>https://www.cef-see.org/blog/the-path-to-lifelong-learning#:~:text=It's%20an%20ongoing%2C%20never%2Dending,navigate%20an%20ever%2Dchang-ing%20world.</u>
- [38] Leong, In Y.,Kaur, B. H., Choy, J. B., W. Yeo, & S. L. Chin (Eds.), (2021) Excellence in Mathematics Education: Foundations and Pathways (Proceedings of the 43rd annual conference of the Mathematics Education Research Group of Australasia), pp. 235-242. Singapore: MERGA.
- [39] Luo, J., & Muyunda, G. (2021). Teachers' voice in Zambia. International Journal of Asian Education, 2(3), 388–397. Vol. 2, No. 3, September 2021 https://doi.org/10.46966/ijae.v2i3.164
- [40] Mabunda, P. (2023). The implementation of the curriculum and assessment policy statement. Perspectives in Education, 41(4). <u>https://doi.org/10.38140/pie.v41i4.6702</u>
- [41] Mafugu, T., & Abel, S. (2022). Lecturer support in the implementation of a new curriculum during the COVID-19 pandemic. Interchange, 53(2), 243–259. <u>https://doi.org/10.1007/s10780-021-09454-0</u>
- [42] Maharaj, A. (2021). Unmasking the phenomenon of inclusion: Parents' Perspectives on Early Childhood curriculum. International Education Studies, 14(3), 46. https://doi.org/10.5539/ies.v14n3p46
- [43] Manzi, W., & Moreeng, B. (2023). Mediating Economics Curriculum Implementation through Meaningful assessment- a case study of the South African Educational system. E-Journal of Humanities Arts and Social Sciences, 726–743. https://doi.org/10.38159/ehass.2023463
- [44] Moss, Julianne, Godinho, Sally C., Chao, Edlyn (2019) Enacting the Australian Curriculum: Primary and secondary teachers' approaches to integrating the curriculum, Australian Journal of Teacher Education, Vol. 44, Issue 3 Article 2
- [45] Mulenga, I. M. (2020). Rethinking quality assurance in curriculum development and implementation for higher education in Africa. EAST AFRI-CAN JOURNAL OF EDUCATION AND SOCIAL SCIENCES, 1(3), 20–31. https://doi.org/10.46606/eajess2020v01i03.0039
- [46] Mulpeter, N., McCormack, O., & O'Flaherty, J. (2023). Purpose, focus and voice? Lessons from a curriculum development advisory committee. Irish Educational Studies, 42(4), 1025–1042. https://doi.org/10.1080/03323315.2023.2253202
- [47] Naidu, Som & Narayan Sharishna (2021) Pedagogical Choreographies for Practitioner Skills Development (1st Ed.) Routledge ISBN 9781003089698
- [48] Nevenglosky, Erica A, Cale, Chris, Aguilar, Sunddip Panesar (n.d) Barriers to effective curriculum implementation
- [49] Noor, F., Aslam, P., Mushtaq, Q., Maqbool, S., & Sarfraz, J. (2024). Literature review on Curriculum Development. Journal of Health and Rehabilitation Research, 4(2), 663–667. https://doi.org/10.61919/jhrr.v4i2.848
- [50] Nursaputri, E. R., & Aisyah, S. (2024). EXPLORING THE BENEFITS OF CURRICULUM DEVELOPMENT FOR STUDENTS. Abjadia International Journal of Education, 9(1), 57–71. https://doi.org/10.18860/abj.v9i1.25862
- [51] Oviawe, Jane Itohan, Uwameiye, , Raymond Patrick S., Uddin. O. (2017) Bridging Skill Gap to Meet Technical, Vocational Education and Training School-Workplace Collaboration in the 21st Century. International Journal of Vocational Education and Training Research. Vol. 3, No. 1, 2017, pp. 7-14. doi: 10.11648/j.ijvetr.20170301.12
- [52] Palestina, R. L., Pangan, A. D., & Ancho, I. V. (2020). Curriculum Implementation Facilitating and hindering factors: the Philippines context. International Journal of Education, 13(2), 91–104. https://doi.org/10.17509/ije.v13i2.25340
- [53] Pinilla S, Cantisani A, Klöppel S, Strik W, Nissen C, Huwendiek S. Curriculum Development with the Implementation of an Open-Source Learning Management System for Training Early Clinical Students: An Educational Design Research Study. Adv Med Educ Pract. 2021;12:53-61 https://doi.org/10.2147/AMEP.S284974
- [54] Robertson, P., Kheang, T., Bustos, T., Rickards, F., Ferido, M., Cagasan, L. & Dela Cruz, J. (2021). Review of the Attained Curriculum. Assessment Curriculum and Technology Research Centre (ACTRC)
- [55] Sali, Abdul Haiy A. (2022) Democratization of curriculum development: theorizing naturalistic model in Philippine Madrasah education. International Journal of Curriculum and Instruction 15(1) (2022) 566–581
- [56] Saong, M., Bonifacio, J., & Gili, K. K. R. (2023). The role of higher education curriculum in the employability of health sciences graduates. International Journal of Academe and Industry Research, 4(3), 82–104. https://doi.org/10.53378/353009
- [57] Shahidullah, K. K., & Hossain, M. R. (2022). Designing an Integrated Undergraduate Disaster STEM Curriculum: A cultural shift in Higher education curriculum development in Bangladesh. Journal of Ethnic and Cultural Studies, 9(1), 265–280. <u>https://doi.org/10.29333/ejecs/1042</u>
- [58] Sin, K. K. T. (2021). Curriculum development as a tool for professional development. GiLE Journal of Skills Development, 1(2), 29-43. https://doi.org/10.52398/gisd.2021.v1.i2.pp29-43
- [59] Thoriq, A., & Mahmudah, F. N. (2023). EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD): A SYSTEMATIC LITERATURE REVIEW ON CURRICULUM DEVELOPMENT STRATEGY DESIGN. European Journal of Education Studies, 10(5). https://doi.org/10.46827/ejes.v10i5.4803
- [60] Van Vuuren, C. J., Muller, A., & Strydom, F. (2023). Flexible curriculum design for quantitative skills development: Building on the insights gained during COVID-19. Perspectives in Education, 41(1). https://doi.org/10.38140/pie.v41i1.6337
- [61] Volzer, D., Burgess, J., & Magda, A. (2021). Reimagining the workforce 2021: Closing the skills gap through education. Wiley.
- [62] Wanyeki, P., Kisilu, K., & Ferej, A. (2017). Training and workplace requirements: Strategies for minimizing the mismatch gap. African Journal of Education, Science and Technology, 3(3), 113–122.
- [63] Yang, W. (2024b). Discussion on three main elements and their roles in curriculum development. Region Educational Research and Reviews, 6(3), 252. https://doi.org/10.32629/rerr.v6i3.2011
- [64] Yulianto, B., Sueb, S., Asteria, P. V., Harmanto, N., Bachri, B. S., Subekti, H., & Kafrawi, F. R. (2023). Emancipated Learning: Bridging universities

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and schools for future teacher education. In Advances in Social Science, Education and Humanities Research/Advances in social science, education and humanities research (pp. 1114–1121). https://doi.org/10.2991/978-2-38476-008-4_119

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