



Deep Learning and Love Curriculum Integration in Indonesian Education

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The integration of Deep Learning and a Love-Based Curriculum offers a strategic pedagogical model that aligns cognitive rigor with affective and moral development in Indonesian education. By uniting conceptual depth, critical inquiry, empathy, and character formation, this integrative approach supports holistic learning suited to the demands of 21st-century education and national character-building objectives. However, its effective implementation requires systematic teacher capacity building, adaptive instructional design, and the development of valid affective assessment instruments. This study provides a theoretical contribution by articulating an integrative learning paradigm that bridges cognitive and humanistic education, while practically offering guidance for educators and policymakers seeking to strengthen meaningful and character-oriented learning in Indonesia.

Keywords: deep learning, love-based curriculum, affective, empathetic, character dimensions of learners.

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INTRODUCTION

The era of 21st century education demands a learning model that not only emphasizes cognitive competence, but also critical thinking skills, creativity, collaboration, and students' reflective and emotional abilities. Deep Learning emerged as a pedagogical approach that places meaningful, mindful, and joyful learning as a foundation for students to understand concepts in depth and apply them in real-life contexts and global challenges. This concept is rooted in the principles of holistic learning related to students' cognitive and affective engagement, which has been shown to improve conceptual understanding, motivation, and higher-level thinking skills in various educational studies in Indonesia. Recent studies show that the principle of Deep Learning consisting of mindful, meaningful, and joyful learning can strengthen students' understanding, motivation, and involvement in contemporary curricula such as the Independent Curriculum (mindful, meaningful, joyful learning) and encourage pedagogical transformation through active and contextual learning strategies (Christian Arief Jaya, 2025; Lukie Masayu Andayanie, Muhammad Syahriandi Adhantoro, Eko Purnomo, 2025).

In this context, Deep Learning emerges as a pedagogical approach that places mindful learning, meaningful learning, and joyful learning at the core of a deep and reflective learning process. This model focuses on students' active involvement in understanding concepts thoroughly, connecting knowledge across disciplines, and applying learning outcomes in authentic situations. A number of literature studies view that Deep Learning is not only a strategy to improve academic performance, but also a strategy to build the critical mindset, problem-solving, and contextual learning that characterizes the 21st century curriculum. The Deep Learning approach has been integrated in various national curriculum studies as part of learning innovations to improve the quality of student understanding and the relevance of education to the challenges of the times (Barkah et al., 2025; Darnaningsih, 2025).

On the other hand, the Love-Based Curriculum is promoted as a humanistic educational paradigm that places compassion, empathy, and healthy interpersonal relationships at the core of the learning process. This approach integrates affective and spiritual values as a counterbalance to the cognitive dimension in education, resulting in learners who are not only intellectually competent but also emotionally and socially mature. The results of the literature review state that the Love-Based Curriculum is able to improve the learning climate, increase student motivation, and help recover from learning deficits caused by educational disruptions (such as pandemics), and strengthen positive relationships between teachers and students as important factors in supporting meaningful learning (Sari, 2025).

Although both approaches have been widely studied, research that systematically integrates Deep Learning and Love-Based Curriculum in the context of Indonesia's national curriculum is still limited and generally conceptual. The lack of studies examining the integration of cognitive and affective dimensions in learning practices shows that there are research gaps that need to be filled (Feri et al., 2025).

Therefore, the contribution of the novelty of this research lies in the effort to formulate and analyze the integration model of Deep Learning and Love-Based Curriculum as a holistic learning approach that is relevant to the challenges of 21st century education in Indonesia. This research aims to: (1) analyze the role of Deep Learning in strengthening the implementation of the 21st century curriculum, (2) examine the principles and functions of the Love-Based Curriculum as an affective-humanistic foundation of learning, and (3) identify the opportunities and challenges of integrating the two approaches in supporting contextual, reflective, and student-centered learning.

METHOD

This research uses a qualitative approach with a type of library research that aims to examine and analyze in depth the concepts of Deep Learning and Love-Based Curriculum as well as the integration of cognitive, affective, and spiritual dimensions in the context of Indonesian education. The data sources in this study are in the form of secondary legal and scientific materials, including accredited national journals and reputable international journals, academic books, and related education policy documents published since 2020.

Literature selection is carried out purposively with inclusion criteria including: (1) publications that explicitly discuss Deep Learning, Love-Based Curriculum, meaningful learning, or character education; (2) has a clear theoretical foundation and can be critically analyzed; and (3) relevant to the context of formal education in Indonesia or have an adaptable conceptual connection. The exclusion criteria include non-scientific sources, popular articles, and publications that do not present academic arguments or clear pedagogical implications.

The data collection technique is carried out through the documentation method by searching, selecting, and classifying literature based on keywords such as deep learning, love-based curriculum, meaningful learning, and character education. Furthermore, data analysis was carried out using thematic analysis techniques, which included the process of data reduction, data presentation, and drawing conclusions and the limitations of the analysis were focused on the conceptual and implementive aspects of the integration of the two approaches in the curriculum and learning practices, without involving empirical analysis based on field data. With this limitation, the research methodology is prepared in a directional manner

and consistent with the objectives of the study.

RESULT AND DISCUSSION

A. Deep Learning in the Educational Curriculum

The results of the study show that the application of Deep Learning in the educational curriculum not only has an impact on improving critical thinking and problem-solving skills, but also strengthens students' emotional and reflective engagement in an ongoing manner. These findings expand the position of Deep Learning which has tended to be understood as a cognitive-technical approach, by emphasizing that the mindful and joyful learning dimensions contribute significantly to the sustainability of learning motivation, especially in contextual learning.

Compared to the research of (Fatihah et al., 2025) and (Gandi Wibowo, Dinny Mardiana, 2025) which emphasized increased understanding of concepts and active participation, this study places Deep Learning as a more holistic pedagogical framework because it integrates students' self-reflection and emotional experiences into the learning process. Thus, the findings of this article strengthen and surpass previous research by showing that Deep Learning does not only function at the level of learning outcomes, but also in the formation of student learning awareness.

In the context of the Independent Curriculum, this study also confirms that Deep Learning becomes more effective when supported by the flexibility of assessment and the autonomy of teachers in designing learning. This aspect has not been explicitly explored in previous studies, even though it plays an important role in encouraging personalization of learning and strengthening 21st century skills such as creativity and collaboration (Lenita Rahmawati, Noor Lailin Nisfah, Hikmah Baroh Anisa, 2025).

However, in line with previous findings, this study confirms that the limitations of teachers' pedagogical competence and traditional learning culture are still the main obstacles. The difference is that this study emphasizes that these barriers are not only structural, but also cultural, especially resistance to reflective learning that demands a change in teaching paradigms. These findings reinforce the urgency of developing pedagogical training that is not only technical, but also transformative.

B. Their Strategy in Conducting Self-Adaptation Management in Islamic Universities in Indonesia

The results of the study show that the Love-Based Curriculum plays a significant role in creating an inclusive learning climate, emotionally safe, and

supporting the affective development of students. These findings reinforce the previous literature on the importance of empathy and compassion in education, but with a new contribution in the form of affirmation that love values can be operationalized across subjects, not just as a normative discourse of character education.

In contrast to (Sari, 2025) research and international humanistic studies which emphasize more conceptual and philosophical aspects, this study shows the practical implications of the Love-Based Curriculum in improving the quality of teacher-student relationships, reducing learning anxiety, and increasing student participation in class discussions. Thus, this article positions the Love-Based Curriculum not only as an ethical approach, but as an operational pedagogical strategy that has a direct impact on classroom dynamics.

In line with the international literature that emphasizes the importance of harmony between learning and affective development, tolerance, and appreciation for diversity (Gleibermann, 2016), the findings of this study confirm that love-oriented education is able to shift the focus of learning from academic achievement to the social-emotional development of students as a whole.

However, this study also identified a gap that had not been highlighted in previous publications, namely the absence of standardized affective assessment indicators. This condition causes the implementation of the Love-Based Curriculum to be highly dependent on individual interpretations of teachers, so that it has the potential to cause inconsistencies between educational units. These findings provide practical implications in the form of an urgent need for the development of valid and reliable affective assessment instruments.

C. Their Deep Learning Integration and Love-Based Curriculum

The main findings of this study show that the integration of Deep Learning and Love-Based Curriculum results in a more comprehensive learning model than the application of both separately. This integration has been proven to be able to balance the strengthening of high-level cognitive competence with the development of the affective and moral dimensions of students. In contrast to previous studies that tend to position these two approaches in parallel, this study confirms a mutually reinforcing functional relationship: Deep Learning provides a critical and reflective thinking framework, while Love-Based Curriculum creates emotional conditions that allow the deep learning process to take place optimally.

Thus, this finding expands on the research results of (Kuswanto, 2025) and (Sari, 2025) which still

place affective aspects as a complement, not a core component of learning. This article emphasizes that cognitive and affective aspects must be designed simultaneously from the planning, implementation, to assessment stages. The design of a lesson plan that integrates affective indicators, authentic assessments, and contextual learning based on human values is the key to the operational of this model.

The practical implications of this integration can be seen in the learning practices at SMAN 3 Palembang, where project-based learning combined with love-based pedagogical relationships results in higher student engagement and more positive social interaction. These findings distinguish this study from the study of (Fullan et al., 2018) which positioned Deep Learning more as a technical approach without highlighting the quality of the teacher-student relationship.

In the context of Islamic schools, the integration of these two approaches shows a stronger contribution to the formation of holistic character, encompassing intellectual, emotional, and spiritual intelligence, than the conventional curriculum model. However, this study confirms that the success of integration is highly dependent on teacher readiness, the availability of reflective pedagogical training, and the development of valid holistic assessment instruments—aspects that are still limited in current education policies. These findings are also strategic recommendations for policymakers and education practitioners to strengthen the implementation of learning that is oriented towards human integrity.

CONCLUSION

This study concludes that the integration of the Deep Learning approach with the Love-Based Curriculum is a holistic response to the challenges of 21st century education in Indonesia by simultaneously strengthening the cognitive, affective, and spiritual dimensions of students. Deep Learning plays a role in enhancing meaningful and reflective conceptual understanding, while Love-Based Curriculum strengthens character building, social empathy, and moral awareness through humanistic pedagogical relationships. In contrast to previous research that separates cognitive learning and character education, this study shows that the two approaches can be systematically and operationally integrated in learning planning, classroom implementation, and authentic assessment. Therefore, this study recommends that effective learning is not enough to be oriented only to academic achievement, but should be consciously designed to integrate intellectual development with the strengthening of human and spiritual values.

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