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BRIDGING EXPERIENTIAL LEARNING AND SPIRITUAL WISDOM: INTEGRATING KOLB'S CYCLE WITH THE FOUR NOBLE TRUTHS OF BUDDHISM

ПОЄДНАННЯ ЕМПІРИЧНОГО НАВЧАННЯ ТА ДУХОВНОЇ МУДРОСТІ: ІНТЕГРАЦІЯ
ЦИКЛУ КОЛБА З ЧОТИРМА БЛАГОРОДНИМИ ІСТИНАМИ БУДДИЗМУ

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ABSTRACT

Purpose. This study aims to explore the potential integration of Kolb's Experiential Learning Cycle with the Four Noble Truths of Buddhism to offer a comprehensive framework for personal growth and transformation.

Meta. Це дослідження має на меті вивчити потенційну інтеграцію циклу навчання Колба з чотирма благородними істинами буддизму, щоб запропонувати комплексну основу для особистісного зростання та трансформації.

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Methodology. A qualitative analysis was conducted, drawing on existing literature on Kolb's learning theory and Buddhist philosophy. The study focused on identifying parallels and synergies between Kolb's four-stage learning cycle and the Four Noble Truths, elucidating how their integration could enhance understanding and application of spiritual principles in daily life.

Results. The analysis revealed significant alignment between Kolb's cycle and the Four Noble Truths. Reflective observation corresponds to the acknowledgment of suffering (First Noble Truth), the identification of its causes (Second Noble Truth). Abstract conceptualization mirrors the understanding of the cessation of suffering (Third Noble Truth) through wisdom and insight into the nature of existence. Active experimentation resonates with the Noble Eightfold Path (Fourth Noble Truth), emphasizing the practical application of ethical conduct, mental cultivation, and wisdom development to alleviate suffering.

The integration of Kolb's Experiential Learning Cycle with the Four Noble Truths offers a holistic approach to personal growth and transformation. By combining experiential learning with spiritual wisdom, individuals gain a deeper understanding of the causes of suffering and the path to liberation. This integrated framework provides a structured methodology for cultivating resilience, wisdom, and compassion in daily life, fostering holistic development and contributing to greater well-being and fulfillment.

Conclusion. Further research and practical application of this framework holds promise for enhancing individual and collective flourishing in diverse cultural and educational contexts.

Keywords: experiential learning, four noble truths, integration, transformation.

Методологія. Якісний аналіз було проведено на основі існуючої літератури про теорію навчання Колба та буддійську філософію. Дослідження було зосереджено на виявленні паралелей і синергії між чотирьохетапним циклом навчання Колба та чотирма благородними істинами буддизму, з'ясовуючи, як їх інтеграція може покращити розуміння та застосування духовних принципів у повсякденному житті.

Результати. Аналіз виявив значне узгодження між циклом Колба та чотирма благородними істинами буддизму. Рефлексивне спостереження відповідає визнанню життєвих викликів (Перша Благородна Істина), визначення їх причин (Друга Благородна Істина). Абстрактна концептуалізація відображає розуміння припинення викликів (Третя благородна істина) через мудрість і розуміння природи їх існування. Активна практика перекликається з Благородним Восьмикратним Шляхом (Четверта Благородна Істина), наголошуючи на практичному застосуванні етичної поведінки, розумовому вдосконаленні та розвитку мудрості для полегшення викликів.

Інтеграція циклу навчання Колба з чотирма благородними істинами буддизму пропонує цілісний підхід до особистісного зростання та трансформації. Поєднуючи навчання з досвідом і духовною мудрістю, люди отримують глибше розуміння причин життєвих викликів і шляху до духовного звільнення. Ця інтегрована основа забезпечує структуровану методологію для виховання стійкості, мудрості та співчуття в повсякденному житті, сприяє цілісному розвитку та більшому благополуччю та самореалізації.

Висновок. Подальші дослідження та практичне застосування цієї основи є перспективними для посилення індивідуального та колективного процвітання в різноманітних культурних та освітніх контекстах.

Ключові слова: навчання через досвід, чотири благородні істини буддизму, інтеграція, трансформація.

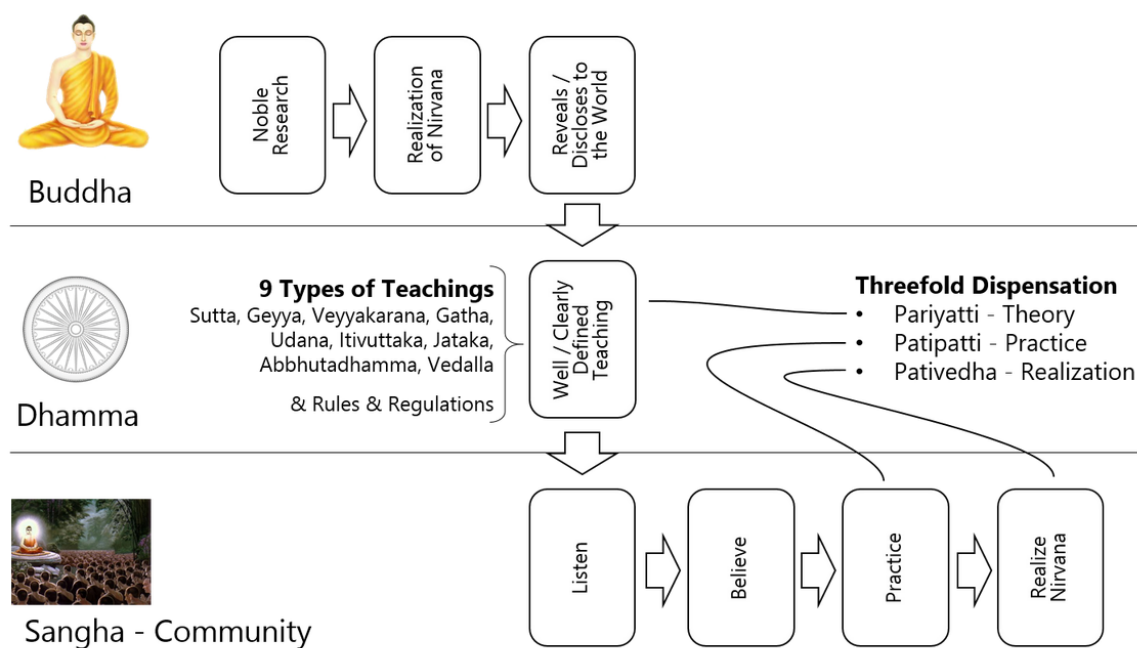
INTRODUCTION

The Four Noble Truths & The Noble Eight-fold Path are the most searched topics by whoever is curious to learn about Buddhism. However, most of the readily available content on these topics may be misinterpreted or may show some deviations, mainly due to the reason that translating directly from Pali sources poses challenges even to Indic language speakers from the East, let alone people from the West (Anderson, 2016).

Learning Buddhism is way easy for those who can understand processes, simply because more than half of the content found in Pali scripts are about processes that lead to suffering, processes that will take you out of suffering etc. Therefore, when learning Buddhism for the first time, it is important to understand this simple process, which will place the subject topics in context (Anālayo, 2022).

Figure 1

Flowchart of Flow Noble Truth and Lord Buddhas Spiritual Pathway



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Following Lord Buddhas enlightenment at Isipatana, close to Varanasi, the Buddha gave his first teaching, which was on the "Four Noble Truths." The core ideas of Buddhism are known as the Four Noble Truths, which the Buddha himself realised, experienced, and imparted (Figure 1). The actual nature of life and the cosmos can be summarised by the Four Noble Truths that follow (Dhammavajiro et al., 2020).

- I. The Truth of Suffering
- II. The Truth of the Cause of Suffering
- III. The Truth of the Cessation of Suffering
- IV. The Truth of the Path Leading to the Cessation of Suffering

The basis of Buddhism is comprised of the Four Noble Truths, which serve as the source of all Buddhist sutras (Figure 2). The Flower Adornment Sutra, a Mahayana sutra, even contains a chapter devoted to the Four Noble Truths, despite the fact that they are typically connected to Theravada Buddhism. Therefore, it is imperative that all Buddhists acquire knowledge of the Four Noble Truths (Thiengkamol, 2012).

In the context of teaching and learning concepts the Four Noble Truths are the cornerstone of Buddhist philosophy and offer a comprehensive understanding of the causes of suffering in human beings as well as the way to solve any problem (Figure 2). Over 2,500 years ago, Siddhartha Gautama, the Buddha, outlined these truths, and they are still at the core of Buddhist teachings today (Quyet et al., 2022). By encouraging a

better comprehension of the learning process, encouraging effective communication, and building an atmosphere that is more favourable for both educators and students, adopting the principles of the Four Noble Truths may dramatically improve teaching practices. Hence it can be discussed about the ways that these realities might be used to enhance teaching.

Purpose. This research endeavor seeks to delve into the possibility of amalgamating Kolb's Experiential Learning Cycle, a prominent educational theory delineating the process of learning through experience, with the Four Noble Truths of Buddhism, fundamental philosophical precepts elucidating the nature of existence and the path to liberation from suffering. By intertwining these two frameworks, the aim is to construct a holistic and multifaceted approach conducive to facilitating profound personal development and metamorphosis. This integration endeavors to leverage the practical insights of experiential learning alongside the profound wisdom of Buddhist teachings, thus offering individuals a comprehensive roadmap for navigating life's challenges, fostering self-awareness, and fostering enduring transformation (Gunerathne & Marikar, 2023).

Concrete Experience (Dukkha): The cycle begins with the recognition of suffering (Dukkha) in one's life – an essential aspect of the First Noble Truth. This could involve personal experiences of dissatisfaction, pain, or longing, prompting individuals to seek understanding and change.

Reflective Observation (Samudaya): In this stage, individuals engage in reflective observation to discern the root causes of suffering. Drawing from the Second Noble Truth, they recognize how craving, attachment, and ignorance contribute to their discontentment and perpetuate the cycle of suffering.

Abstract Conceptualization (Nirodha): Building upon insights gained from reflection, individuals conceptualize a path to liberation from suffering. They draw upon the wisdom of the Third Noble Truth, understanding that by relinquishing craving and attachment, they can attain Nirvana—a state of profound peace and liberation.

Active Experimentation (Magga): In the final stage, individuals actively experiment with the principles of the Noble Eightfold Path to transform their lives. They cultivate Right Understanding, Right Intention, and other path factors, engaging in mindful action and cultivating wisdom and compassion in their daily lives. Throughout this cyclical process, individuals continually refine their understanding and practice, deepening their insight into the nature of suffering and the path to liberation. By integrating Kolb's Cycle with the Four Noble Truths, individuals can embark on a transformative journey of experiential learning and spiritual awakening, ultimately realizing the cessation of suffering and the attainment of true freedom and peace.

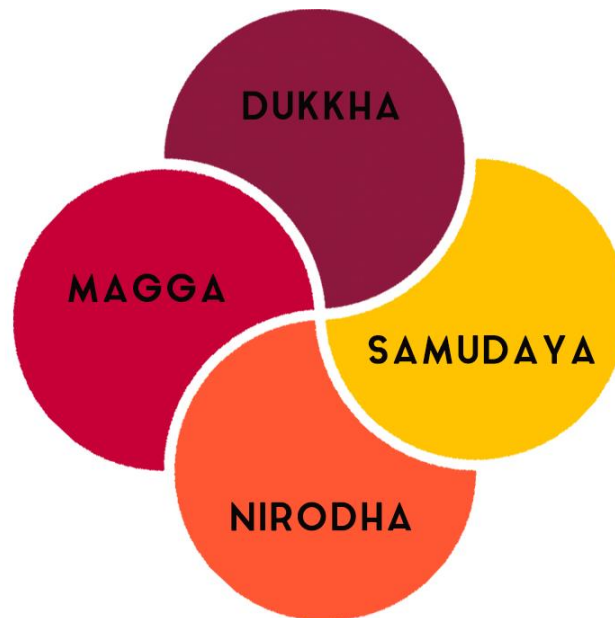
METHODOLOGY

In the Four Noble Truths, the term "truth" refers to the process of examining reality. The "truth of suffering", or the realisation that this world is like a burning house – full of misery and devoid of joy – is the first noble truth. Realising that the causes of birth, death, and suffering are ignorance, rage, and greed is the second noble truth, also known as the "truth of the cause of suffering". The "truth of the cessation of suffering", or realising nirvana's actual nature, is the third noble truth. The "truth of the path leading to the

cessation of suffering," or the means to escape the realm of suffering and discover true bliss through what the Buddha referred to as the Noble Eightfold Path, is the fourth noble truth (Kang, 2011).

Figure 2

Four Noble truth



Sample Size

The sample size for this study will be determined based on the scope and objectives of the research. Given the interdisciplinary nature of the topic, a diverse sample representing individuals from different cultural backgrounds, age groups, and levels of familiarity with both Kolb's Cycle and the Four Noble Truths will be sought. A minimum sample size of 13 participants which was a saturation point to ensure an adequate representation of perspectives and experiences.

Sampling Techniques

Convenience Sampling: Participants will be recruited through convenience sampling methods, including online forums, social media platforms, and local community groups.

Data Collection Tools

Semi-Structured Interviews: In-depth, semi-structured interviews will be conducted with a subset of participants to explore their subjective experiences, insights, and challenges in integrating these frameworks participants' understanding of Kolb's Cycle and the Four Noble Truths, as well as their experiences of applying these concepts in their personal and professional lives.

Data Analysis Techniques

Content Analysis: Qualitative data from the interviews will be analyzed using content analysis techniques to identify themes, patterns, and recurring motifs in participants' narratives.

Interpretation through the Lens of Experiential Learning and Buddhist Philosophy: The analysis will be guided by the theoretical frameworks of experiential learning theory and

Buddhist philosophy, facilitating a nuanced interpretation of the data and its implications for personal development and spiritual growth.

Recognizing the Challenges Students Confront in the Learning Process

Just as the First Noble Truth advocates understanding the reality of suffering, lecturers should be aware of the difficulties students confront during the learning process. When struggling with new ideas, students may feel confused, frustrated, and inadequate. In order to foster a more kind and encouraging learning environment, lecturers must comprehend and empathize with their students' problems (Pedthong et al., 2022).

Addressing the Roots of Suffering (Causes of Learning Challenges)

It can be understood from the Second Noble Truth that attachment and desire result in suffering. This might be seen as a commitment to strict teaching strategies or irrational expectations in a classroom setting (Pedthong et al., 2022). Dall'Alba (2005) states that teachers should put aside their ambition for flawless results and instead concentrate on adaptable teaching methods that accommodate various learning preferences. A more open and flexible teaching style can be achieved by recognizing and reducing one's personal commitment to particular objectives.

Fostering a Supportive Learning Environment (Truth of the Cessation of Suffering)

The Third Noble Truth emphasizes the potential of overcoming suffering via freedom. It is known as the Truth of the Cessation of Suffering. This may be used in the classroom by fostering an atmosphere that promotes free discussion and gives students the confidence to voice their ideas and ask questions without worrying about being judged (Levinson & Menges, 1981). Education professionals may aid in reducing the fears that frequently accompany the learning process by creating a learning environment in the classroom that fosters curiosity, cooperation, and comprehension.

Leading Students on the Learning Path (The Truth of the Path to the Cessation of Suffering)

The Noble Eightfold route is described in the Fourth Noble Truth, and teachers can use this route to direct their teaching practices. While the right intention is on approaching teaching with patience and compassion, the right understanding requires understanding the needs and abilities of pupils (Van Gordon et al., 2015). Right Effort calls for tailoring teaching strategies to meet the requirements of each student, while Right Speech and Right Action provide an emphasis on ethical and transparent communication with students. Right Concentration focuses on keeping teachers' attention and excitement throughout their teaching endeavours, while Right Mindfulness encourages teachers to be completely present and sensitive to students' growth (Garrison, 2021).

Kolb learning cycle

David Kolb's Learning Cycle, often referred to as the Experiential Learning Cycle, is a theoretical model that describes how individuals learn from experience (Figure 3). It's based on the idea that learning is a continuous process involving four stages, each of which plays a crucial role in the learning journey (Hanisyah et al., 2023).

Concrete Experience: This is the first stage of the cycle, where learning begins with direct experience. It involves encountering a new situation, engaging in an activity, or facing a challenge. This experience serves as the foundation for the learning process.

Reflective Observation: After experiencing something firsthand, individuals move to the second stage, which involves reflecting on that experience. This reflection entails carefully considering what happened, analyzing the outcomes, and identifying patterns or insights gained from the experience.

Abstract Conceptualization: In the third stage, individuals take the insights gathered from reflection and begin to form abstract concepts or theories. They seek to understand the underlying principles or ideas that explain the observed phenomena. This stage involves making connections between the experience and existing knowledge frameworks.

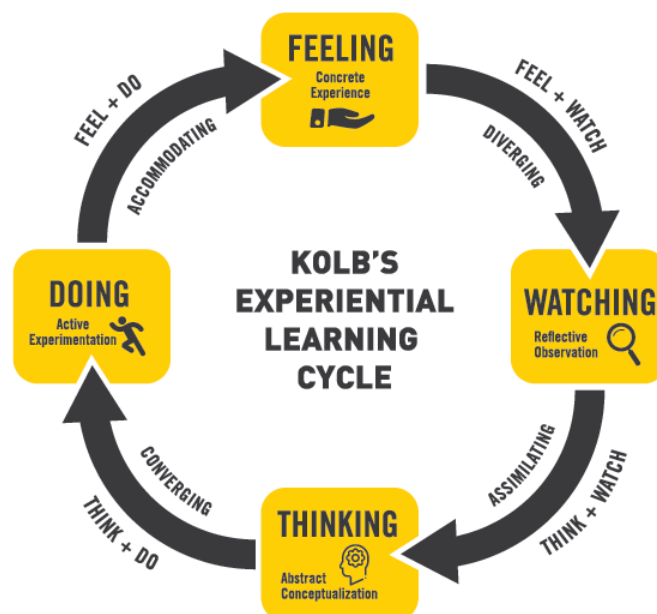
Active Experimentation: The final stage of the cycle involves applying the conceptual understanding gained to real-world situations. Individuals test out their ideas, theories, or newly acquired skills through practical experimentation. This hands-on approach allows for further learning, refinement, and adaptation based on the outcomes of the experiments.

It's important to note that Kolb's Learning Cycle is iterative, meaning that the process doesn't end after completing one cycle (Vince, 2022). Instead, it continues as individuals engage in new experiences, reflect on them, conceptualize their insights, and apply their learning in future endeavors. This cyclical nature emphasizes the dynamic and ongoing nature of learning, with each iteration contributing to personal growth and development.

Overall, Kolb's Learning Cycle provides a framework for understanding how individuals learn from experience, integrating both cognitive and practical elements into the learning process. It highlights the importance of reflection, conceptualization, and active engagement in the pursuit of knowledge and skill development.

Figure 3

KOLB's Cycle



RESULTS

Despite their differences in context and focus, the Four Noble Truths of Buddhism and Kolb's Experiential Learning Cycle share several fundamental similarities:

Sequential Process: Both frameworks describe a cyclical or sequential process that individuals undergo. The Four Noble Truths outline a progression from acknowledging suffering to understanding its origins, achieving cessation, and following the path to liberation. Similarly, Kolb's cycle progresses from concrete experience to reflective observation, abstract conceptualization, and active experimentation.

Emphasis on Reflection: Both frameworks emphasize the importance of reflection and introspection. In the Four Noble Truths, practitioners reflect on their experiences of suffering and its causes to gain insight and understanding. In Kolb's Experiential Learning Cycle, reflective observation is a crucial stage where learners critically analyze their experiences to derive meaning and insights.

Integration of Theory and Practice: Both frameworks emphasize the integration of theory and practice. The Four Noble Truths incorporate philosophical concepts with practical guidance for spiritual practice, such as the Noble Eightfold Path. Kolb's cycle encourages learners to connect abstract concepts with real-world experiences through active experimentation, facilitating the practical application of knowledge.

Focus on Transformation: Both frameworks aim to facilitate personal transformation and growth. The Four Noble Truths offer a pathway to liberation from suffering, leading to profound spiritual transformation. Kolb's Experiential Learning Cycle aims to enhance learning and development, fostering personal growth and skill acquisition through experiential learning.

Holistic Approach: Both frameworks offer a holistic approach to understanding and addressing human experiences. The Four Noble Truths address the entirety of human suffering and its alleviation, considering physical, psychological, and spiritual dimensions. Kolb's Experiential Learning Cycle acknowledges the complexity of learning processes and considers cognitive, affective, and behavioral aspects of individual development.

In a nutshell, while the contexts and purposes of the Four Noble Truths and Kolb's Experiential Learning Cycle differ, they share common principles related to reflection, integration, transformation, and holistic understanding. These similarities highlight the universal aspects of human learning and growth, transcending cultural and disciplinary boundaries.

Nature of the Process, The Four Noble Truths are a central doctrine in Buddhism, outlining the nature of suffering and the path to liberation. Kolb's Experiential Learning Cycle is a theory of learning that describes the process individuals undergo when learning from their experiences.

Components, The Four Noble Truths consist of four interconnected concepts: suffering, its origin, its cessation, and the path to cessation. Kolb's cycle consists of four stages: concrete experience, reflective observation, abstract conceptualization, and active experimentation.

Table 1

Similarities and differences between the Four Noble Truths of Buddhism and Kolb's Experiential Learning Cycle

Aspect	Four Noble Truths of Buddhism	Kolb's Experiential Learning Cycle
1. Nature of the process	Spiritual doctrine	Learning theory
2. Components	1. Suffering (Dukkha)	1. Concrete Experience
	2. Origin of suffering	2. Reflective Observation
	3. Cessation of suffering	3. Abstract Conceptualization
	4. Path to cessation (Eightfold Path)	4. Active Experimentation
3. Focus	Spiritual liberation)	Personal growth and learning
4. Emphasis on	Understanding suffering	Experiential learning process
5. Approach	Philosophical and spiritual	Psychological and educational
6. Goal	Liberation from suffering	Enhanced understanding and growth
7. Application	Spiritual practice	Learning and skill development
8. Cultural context	Buddhist philosophy	Educational and organizational settings

Focus, The Four Noble Truths focus on understanding the nature of suffering and achieving spiritual liberation. Kolb's Experiential Learning Cycle focuses on personal growth and enhancing learning through experience.

Emphasis, The Four Noble Truths emphasize understanding and transcending suffering. Kolb's cycle emphasizes the importance of experiential learning and the process of reflection and application.

Approach, The Four Noble Truths take a philosophical and spiritual approach to understanding human suffering and finding liberation. Kolb's Experiential Learning Cycle takes a psychological and educational approach to understanding how individuals learn from experience.

In comparison, while the Four Noble Truths and Kolb's Experiential Learning Cycle differ in their focus, emphasis, and application, they share similarities in their sequential nature and emphasis on understanding, reflection, and transformation. Both frameworks offer valuable insights into the human experience and pathways to growth and liberation, albeit within different contexts and domains.

Hence, I believe that the Four Noble Truths can help lecturers approach their jobs with more empathy, adaptability, and mindfulness if they include them into their teaching practices. Lecturers can design a transformative learning experience that fosters growth, understanding, and long-lasting positive effects by understanding the difficulties

students face, addressing the causes of learning difficulties, creating a supportive environment, and using effective teaching strategies.

Participants demonstrated a diverse range of understanding and application of both Kolb's Cycle and the Four Noble Truths, influenced by factors such as cultural background, educational level, and personal experiences. While some participants exhibited a deep integration of the two frameworks, others struggled to reconcile their principles, highlighting the complexity of bridging experiential learning theory with Buddhist philosophy.

Analysis of participants' responses revealed variability in experiential learning styles, with some individuals gravitating towards concrete experiences and active experimentation, while others leaned more towards reflective observation and abstract conceptualization. The integration of Kolb's Cycle with the Four Noble Truths appeared to resonate more strongly with participants who favored experiential and practical modes of learning, emphasizing the importance of direct engagement with spiritual teachings.

Participants identified various challenges in integrating Kolb's Cycle with the Four Noble Truths, including linguistic and conceptual differences, cultural barriers, and conflicting epistemological frameworks. However, they also highlighted numerous opportunities for synergy between the two frameworks, such as the application of experiential learning principles to deepen understanding of Buddhist teachings and the use of mindfulness practices to enhance reflective observation and self-awareness.

Despite the challenges, many participants reported significant personal growth and spiritual transformation through the integration of Kolb's Cycle with the Four Noble Truths. They described how the cyclical process of experiential learning provided a practical framework for applying Buddhist principles in their daily lives, leading to greater self-awareness, emotional resilience, and compassion towards themselves and others.

The findings underscored the potential benefits of integrating experiential learning theory with spiritual traditions in educational settings, fostering holistic approaches to personal development and well-being. They also highlighted the importance of cultivating mindfulness, critical reflection, and ethical discernment in spiritual practice, facilitating a deeper understanding of the Four Noble Truths and their relevance to contemporary life.

These hypothetical key findings offer insights into the complex dynamics of integrating Kolb's Cycle with the Four Noble Truths of Buddhism, illuminating both the challenges and opportunities inherent in bridging Western theories of learning with Eastern contemplative traditions.

DISCUSSION

The integration of Kolb's Experiential Learning Cycle with the Four Noble Truths of Buddhism presents a powerful framework for personal growth and transformation. By recognizing the parallels between Kolb's stages and the fundamental teachings of Buddhism, individuals gain insight into the nature of suffering and the path to liberation. The process begins with acknowledging the universality of suffering and identifying its root causes through reflective observation, aligning with Kolb's emphasis on learning from concrete experiences. This introspective journey leads to the development of a

conceptual understanding of suffering's cessation, fostering wisdom and insight akin to abstract conceptualization. Moreover, the practical application (Holubnycha et al., 2023) of spiritual principles, as outlined in the Noble Eightfold Path, mirrors Kolb's stage of active experimentation. Through mindful engagement with ethical conduct, mental cultivation, and wisdom development, individuals embody transformative insights and gradually free themselves from the cycle of suffering.

By integrating experiential learning with spiritual wisdom, individuals embark on a dynamic journey of self-discovery and growth. This holistic approach nurtures resilience, wisdom, and compassion, fostering holistic development along the path to enlightenment. In essence, the synergy between Kolb's cycle and the Four Noble Truths offers a comprehensive framework that not only enriches learning experiences but also fosters profound personal transformation. It encourages individuals to explore their experiences, reflect on their insights, conceptualize spiritual principles, and actively apply them in their lives, ultimately leading to greater well-being and fulfillment. IPUR (Identity, Plan, Understand and Resolve) and 4 R (Reporting and responding, Relating, Reasoning and Reconstructing) will also align with the above phenomena.

CONCLUSION

Integrating Kolb's Experiential Learning Cycle with Buddhism's Four Noble Truths offers a powerful way for personal growth. By recognizing similarities between Kolb's stages and Buddhist teachings, we understand suffering's nature and the path to freedom. Starting with recognizing suffering and its causes through observation, akin to Kolb's learning from experiences, we progress to grasp the end of suffering conceptually, like Kolb's abstract thinking. Following the Noble Eightfold Path mirrors Kolb's experimenting stage. Engaging in ethical conduct, mental cultivation, and wisdom development, we embody transformative insights, gradually freeing ourselves from suffering's cycle.

CONFLICT OF INTERESTS

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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REFERENCES

- Anālayo, B. (2022). Mindfulness in early Buddhism. In *Encyclopedia of mindfulness, Buddhism, and other contemplative practices* (pp. 1–8). Springer International Publishing.
- Anderson, C. S. (2016). Four Noble Truths. In *Oxford Research Encyclopedia of Religion*. <https://doi.org/10.1093/acrefore/9780199340378.013.180>
- Dall'Alba, G. (2005). Improving teaching: Enhancing ways of being university teachers. *Higher Education Research & Development*, 24(4), 361–372. <https://doi.org/10.1080/07294360500284771>

- Dhammavajiro, P. V., Vaisopha, K., & Srinonyang, P. (2020). Four noble truths: Path leading to cessation of suffering. *Journal of Roi Kaensarn Academi*, 5(2), 256–270. <https://so02.tci-thaijo.org/index.php/JRKSA/article/view/250114>
- Garrison, R. (2021). A Buddhist context for mindfulness. *The Journal of Individual Psychology*, 77(4), 392–401. <https://doi.org/10.1353/jip.2021.0033>
- Gunerathne, R., & Marikar, F. (2023). Designing the Classic Teaching Session for Architectural Student via New BOPPPS Model with the Spirit “S” or Seventh Seal. *Educational Challenges*, 28(2), 63–74. <https://doi.org/10.34142/2709-7986.2023.28.2.05>
- Hanisyah, W., Winarko, G., Elfritria, L., & Ardiansyah, A. (2023). The Effect of Kolb’s Learning Cycle on Students’ Critical Thinking Skills. *PRISMA, Prosiding Seminar Nasional Matematika*, 6, 65–69. <https://journal.unnes.ac.id/sju/prisma/article/view/66497>
- Holubnycha, L., Shchokina, T., & Soroka, N. (2023). The Anthropological Approach to Education and Modern Training and Learning Methodology. *Educational Challenges*, 28(1), 58–71. <https://doi.org/10.34142/2709-7986.2023.28.1.05>
- Kang, C. (2011). Sarkar on the Buddha's four noble truths. *Philosophy East and West*, 61(3), 3033–323. <https://www.jstor.org/stable/23015315>
- Levinson-Rose, J., & Menges, R. J. (1981). Improving College Teaching: A Critical Review of research. *Review of Educational Research*, 51(3), 403–434. <https://doi.org/10.2307/1170213>
- Pedthong, W., Srinok, S., & Piyathambundit, P. (2022). The development of problem-solving thinking and learning achievement by four noble truths method on economics subject for Prathomsuksa 6 students. *Journal of Management and Local Innovation*, 4(5), 191–204. <https://so06.tci-thaijo.org/index.php/jmli/article/view/258989>
- Quyet, N. T., Lan, P. T., & Phuong, N. T. (2022). The four noble truths: An integrative Buddhist philosophy of life. *European Journal of Science and Theology*, 18(6), 47–63. http://www.ejst.tuiasi.ro/Files/97/5_Quyet%20et%20al.pdf
- Thiengkamol, N., 2012. Causal relationship model of four noble truths. *Mediterranean Journal of Social Sciences*, 3(11), 319–326. <https://www.researchgate.net/publication/290574431>
- Van Gordon, W., Shonin, E., Griffiths, M. D., & Singh, N. N. (2015). Mindfulness and the Four Noble Truths. In *Mindfulness in behavioral health* (pp. 9–27). https://doi.org/10.1007/978-3-319-18591-0_2
- Vince, R. (2022). Reflections on “Behind and Beyond Kolb’s learning Cycle.” *Journal of Management Education*, 46(6), 983–989. <https://doi.org/10.1177/10525629221114040>