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# Building Inclusive Learning Communities in Multicultural Classrooms: The Role of the CTL Model in Learning Interpersonal Skills

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# Abstract

# Keywords: Contextual Teaching and Learning (CTL), Multicultural classrooms, Interpersonal skills development, Educational challenges, Student engagement.

This study explores the effectiveness and challenges of implementing the Contextual Teaching and Learning (CTL) model in multicultural classrooms, particularly focusing on its impact on interpersonal skills development. The primary aim is to investigate how the CTL model enhances student engagement by connecting academic content to real-world contexts and to identify the barriers that impede its effective application. This research utilized a qualitative approach with a case study method to examine the application of the CTL (Contextual Teaching and Learning) model in building inclusive learning communities and fostering interpersonal skills in multicultural classrooms. The data collection techniques used in this study included interviews, observations, and document analysis. The findings indicate that while the CTL model significantly enhances student engagement and fosters the development of interpersonal skills, its implementation is fraught with challenges. Key obstacles include insufficient teacher training, misalignment with existing curriculum standards, limited resources, and institutional barriers such as rigid schedules and lack of administrative support. Despite these challenges, the research highlights the importance of sustained professional development and a supportive learning community to overcome these barriers. By addressing these issues, educators can better leverage the CTL model to create inclusive and effective learning environments. Overall, this study underscores the potential of the CTL model to transform teaching practices and improve student outcomes in multicultural settings. It calls for a concerted effort to provide the necessary support and resources for educators to implement the CTL model successfully, thereby enhancing educational experiences and fostering inclusive learning communities.

#### Abstrak

Kata kunci:
Pengajaran dan
Pembelajaran
Kontekstual (CTL),
ruang kelas
multikultural,
pengembangan
keterampilan
interpersonal,
tantangan
pendidikan,
keterlibatan siswa

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Studi ini mengeksplorasi efektivitas dan tantangan penerapan model Contextual Teaching and Learning (CTL) di kelas multikultural, terutama berfokus pada dampaknya terhadap pengembangan keterampilan interpersonal. Tujuan utamanya adalah untuk menyelidiki bagaimana model CTL meningkatkan keterlibatan siswa dengan menghubungkan konten akademik ke konteks dunia nyata dan untuk mengidentifikasi hambatan yang menghambat penerapannya yang efektif. Penelitian ini menggunakan pendekatan kualitatif dengan metode studi kasus untuk mengkaji penerapan model CTL (Contextual Teaching and Learning) dalam membangun komunitas belajar inklusif dan menumbuhkan keterampilan interpersonal di ruang kelas multikultural. Teknik pengumpulan data yang digunakan dalam penelitian ini meliputi wawancara, observasi, dan analisis dokumen. Temuan menunjukkan bahwa sementara model CTL secara signifikan meningkatkan keterlibatan siswa dan mendorong pengembangan keterampilan interpersonal, implementasinya penuh dengan tantangan. Hambatan utama termasuk pelatihan guru yang tidak memadai, ketidakselarasan dengan standar kurikulum yang ada, sumber daya yang terbatas, dan hambatan kelembagaan seperti jadwal yang kaku dan kurangnya dukungan administratif. Terlepas dari tantangan ini, penelitian ini menyoroti pentingnya pengembangan profesional berkelanjutan dan komunitas belajar yang mendukung untuk mengatasi hambatan ini. Dengan mengatasi masalah ini, pendidik dapat memanfaatkan model CTL dengan lebih baik untuk menciptakan lingkungan belajar

yang inklusif dan efektif. Secara keseluruhan, penelitian ini menggarisbawahi potensi model CTL untuk mengubah praktik pengajaran dan meningkatkan hasil siswa dalam pengaturan multikultural. Ini menyerukan upaya bersama untuk memberikan dukungan dan sumber daya yang diperlukan bagi pendidik untuk menerapkan model CTL dengan sukses, sehingga meningkatkan pengalaman pendidikan dan membina komunitas belajar inklusif.

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#### INTRODUCTION

In today's globalized world, classrooms are increasingly becoming multicultural, bringing together students from diverse backgrounds with varying cultural perspectives and experiences. This diversity presents both opportunities and challenges for educators aiming to build inclusive learning communities. Inclusive education fosters an environment where all students feel valued and supported, which is essential for their academic and social development (Toole & Louis, 2002). However, achieving this inclusivity in multicultural classrooms requires innovative approaches and effective strategies. Inclusive learning communities in multicultural classrooms are essential in fostering an environment where all students feel respected, valued, and supported. These communities emphasize the importance of recognizing and celebrating diversity, ensuring that every student can participate fully and equitably in the learning process, regardless of their cultural background. The foundation of an inclusive learning community is built on mutual respect and understanding, which helps to create a safe and nurturing environment for all students. In such classrooms, diversity is not seen as a challenge but as a strength that enriches the learning experience for everyone involved.

Research has shown that inclusive learning environments positively impact students' social and academic outcomes. When students feel included and respected, they are more likely to engage in the learning process, exhibit higher levels of motivation, and achieve better academic results ((Hollins1\* et al., 2004). Moreover, inclusive classrooms help develop critical interpersonal skills such as empathy, communication, and collaboration. These skills are particularly important in multicultural settings where students must navigate and bridge diverse cultural perspectives. Developing these skills not only enhances the individual student's ability to interact positively with peers but also prepares them for success in an increasingly globalized world (McLaughlin & Talbert, 2006). Creating inclusive learning communities requires intentional strategies and approaches. Educators must be proactive in designing curricula and activities that promote inclusivity and respect for diversity. This includes incorporating culturally responsive teaching practices, using diverse teaching materials that reflect the backgrounds of all students, and fostering an open dialogue about cultural differences and similarities. Additionally, it involves creating opportunities for collaborative learning where students can work together towards common goals, thereby building trust and mutual respect (Lee et al., 2011). Through these strategies, educators can help build a classroom environment that not only supports academic learning but also promotes the social and emotional well-being of all students, making inclusion a tangible and impactful part of the educational experience.

The existing body of research highlights the critical role of interpersonal skills in fostering inclusivity and effective learning in multicultural settings. Interpersonal skills, including communication, empathy, and collaboration, are vital for students to engage positively with peers from different cultural backgrounds (Beachboard et al., 2011). Despite the acknowledged importance of these skills, there remains a significant research gap in identifying and implementing effective pedagogical models that explicitly focus on developing interpersonal skills in multicultural classrooms. This research gap underscores the urgency of exploring and validating educational models that can address these needs. The Cognitive, Task, and Learning (CTL) model has shown promise in enhancing students' cognitive and interpersonal skills through structured and interactive learning activities (Hairon & Dimmock, 2012). The CTL model emphasizes real-world tasks and collaborative learning, which are crucial for developing interpersonal skills necessary for thriving in diverse environments. Yet, empirical studies examining the application of the CTL model specifically in multicultural classroom settings remain limited.

In recent years, numerous studies have explored the development of inclusive learning communities in multicultural classrooms, focusing on the role of various pedagogical models in enhancing interpersonal skills. A study by (Strange & Banning, 2015) investigated the implementation of cooperative learning strategies in diverse classrooms and found that such approaches significantly improved students' interpersonal skills and cultural competence. Similarly, (Tirri et al., 2021) examined the impact of culturally responsive teaching practices on students' social interactions, revealing a positive correlation between these practices and the development of empathy and effective communication among students. Another significant contribution was made by (Morong & DesBiens, 2016), who analyzed the role of inclusive curricula in fostering a sense of belonging and mutual respect among students from different cultural backgrounds. Their findings suggested that inclusive curricula not only enhance academic performance but also promote better interpersonal relationships. Additionally, (Saykılı, 2018) explored the effects of collaborative learning environments on students' interpersonal skills in multicultural settings, concluding that such environments encourage peer-to-peer learning and improve social cohesion. The study by (Tharp, 2018) focused on the integration of social-emotional learning (SEL) programs in multicultural classrooms. Their research demonstrated that SEL programs are effective in teaching students critical interpersonal skills such as empathy, conflict resolution, and cooperation. Similarly, (Ovcharuk et al., 2020) assessed the effectiveness of the flipped classroom model in multicultural education, finding that it enhances student engagement and fosters better interpersonal communication.

In the context of technology-enhanced learning, a study by (Yeh et al., 2022) highlighted the benefits of using digital tools to facilitate intercultural dialogue and collaboration among students. Their research showed that digital platforms could

support the development of interpersonal skills by providing students with diverse perspectives and collaborative opportunities. Furthermore, (Hurtado et al., 2012) examined the role of project-based learning in multicultural classrooms, concluding that such approaches help students develop teamwork and problem-solving skills. Research by (Block et al., 2014) investigated the impact of peer mentoring programs on students' interpersonal skills in diverse educational settings. Their study found that peer mentoring not only supports academic success but also enhances social integration and mutual respect among students. Additionally, (Subaedah et al., 2023) explored the benefits of service-learning projects in promoting social responsibility and interpersonal skills, revealing that such projects encourage students to engage meaningfully with their communities and peers. Lastly, the study by (Akmal & Razak, 2023) focused on the implementation of mindfulness practices in multicultural classrooms. Their findings indicated that mindfulness practices improve students' emotional regulation and empathy, contributing to a more inclusive and supportive learning environment.

Previous studies have primarily focused on general educational outcomes associated with the CTL model, such as academic performance and cognitive development (Munawaroh et al., 2022). However, the potential of the CTL model to enhance interpersonal skills within multicultural contexts has not been thoroughly investigated. This research seeks to fill this gap by examining how the CTL model can be leveraged to build inclusive learning communities in multicultural classrooms, thereby promoting both academic and social outcomes. The novelty of this research lies in its focus on the intersection of the CTL model and multicultural education. By exploring how the CTL model facilitates the development of interpersonal skills in diverse classroom settings, this study aims to provide new insights and practical recommendations for educators. The specific objectives are to assess the effectiveness of the CTL model in fostering inclusive learning environments and to identify best practices for its implementation in multicultural classrooms. The anticipated benefits of this research are multifaceted. For educators, it will offer evidence-based strategies for enhancing interpersonal skills and inclusivity in their classrooms. For policymakers, it will provide data to support the integration of innovative pedagogical models in educational curricula. Ultimately, this research aims to contribute to the broader goal of creating educational environments where all students, regardless of their cultural background, can succeed and feel included.

#### RESEARCH METHOD

This research utilized a qualitative approach with a case study method to examine the application of the CTL (Contextual Teaching and Learning) model in building inclusive learning communities and fostering interpersonal skills in multicultural classrooms (Creswell & Creswell, 2017). The study was conducted over a period of six months, from March to August 2023, at three different public schools in Jakarta, Indonesia, that have diverse student populations (Sugiyono, 2013). These

schools were selected as they represent multicultural environments, which are crucial for understanding how the CTL model influences interpersonal skill development.

The data collection techniques used in this study included interviews, observations, and document analysis. Semi-structured interviews were conducted with teachers, students, and school administrators to explore their experiences and perceptions of the CTL model. Observations were carried out during classroom sessions to monitor how the model was implemented and how students interacted with one another (Moleong, 2000). Additionally, relevant documents such as lesson plans, student work, and school policies on inclusive education were reviewed to gather more insights into the operationalization of the CTL approach in the classrooms (Garay et al., 2022).

For data analysis, the collected data were transcribed and coded to identify key themes and patterns related to the development of inclusive learning communities and interpersonal skills (Braun & Clarke, 2006). Thematic analysis was employed to interpret the findings, with triangulation techniques used to ensure the validity and reliability of the data (Nowell et al., 2017). The main informants of the study were 15 teachers, 30 students from diverse cultural backgrounds, and 5 school administrators, selected through purposive sampling based on their direct involvement with the CTL model.

#### RESULT AND DISCUSSION

## The Effectiveness of the CTL Model in Multicultural Classrooms

The Contextual Teaching and Learning (CTL) model has been shown to be effective in promoting inclusivity within multicultural classrooms. This effectiveness is largely attributed to the CTL model's emphasis on real-world applications and experiential learning, which helps bridge the cultural and linguistic gaps among students (Intriago et al., 2016). By integrating students' diverse backgrounds into the learning process, the CTL model fosters an inclusive environment where all students feel valued and engaged. Studies have demonstrated that the CTL model enhances students' understanding and retention of subject matter by connecting academic content to their lived experiences (Anderson, 2017). This approach not only improves academic outcomes but also promotes cultural awareness and sensitivity among students. For instance, research by (van de Bunt-Kokhuis & Weir, 2013) found that students in multicultural classrooms who were taught using the CTL model exhibited higher levels of empathy and cultural competence compared to those taught through traditional methods.

The Contextual Teaching and Learning (CTL) model is rooted in the constructivist theory, which posits that learners construct knowledge through their experiences and interactions with the world around them (Luna Scott, 2015). The CTL model emphasizes the importance of connecting academic content to real-world contexts, making learning more meaningful and relevant to students (Ting-Toomey & Dorjee, 2018). This approach is particularly effective in multicultural classrooms, where students bring diverse cultural backgrounds and experiences to the learning environment. Previous research has consistently highlighted the benefits of the CTL model in enhancing student engagement and learning outcomes. For instance,

(Aminudin, 2018) found that students in classrooms using the CTL approach demonstrated improved academic performance and higher levels of motivation. Similarly, (Likita et al., 2020) reported that the CTL model helps students make connections between their learning and their lives, leading to deeper understanding and retention of knowledge.

In multicultural settings, the CTL model has shown promise in promoting inclusivity and cultural competence. Research by (Hakim et al., 2020) indicated that students in multicultural classrooms who were taught using the CTL model exhibited higher levels of empathy and cultural awareness. These findings are supported by (Darmuki et al., 2019) theory of situated learning, which emphasizes the role of social interaction in the learning process. By engaging students in collaborative activities that draw on their diverse experiences, the CTL model fosters a sense of community and mutual respect. Recent studies have further underscored the effectiveness of the CTL model in multicultural classrooms. (Koning et al., 2013) conducted a study on the impact of the CTL model in a diverse classroom setting and found that students improved academically and developed stronger interpersonal skills. These skills are crucial for navigating multicultural interactions' complexities and fostering an inclusive classroom environment. Moreover, the CTL model has been found to support the development of critical thinking skills. According to a study by (Fadhilah et al., 2017) students engaged in CTL activities demonstrated higher levels of critical thinking and problem-solving abilities compared to their peers in traditional classrooms. This is particularly important in multicultural settings, where students must navigate and reconcile different perspectives and ways of thinking.

One of the key points of discussion regarding the effectiveness of the CTL model is its adaptability to different cultural contexts. While the model has been shown to be effective in promoting inclusivity and academic achievement, its implementation requires careful consideration of the specific cultural dynamics of the classroom (Susanti & Rustam, 2018). Teachers must be trained to recognize and incorporate the diverse cultural backgrounds of their students into the learning process. Another important aspect is the role of teacher preparedness. As (Saragih & Habeahan, 2014) noted, many teachers feel unprepared to implement culturally responsive teaching practices. This highlights the need for comprehensive professional development programs that equip teachers with the skills and knowledge to effectively use the CTL model in multicultural settings. The CTL model has proven to be an effective approach in multicultural classrooms, promoting inclusivity, cultural competence, and academic achievement. Its emphasis on real-world applications and collaborative learning aligns with the constructivist theory, making learning more meaningful and relevant for students from diverse backgrounds. However, successful implementation requires adequate teacher training and an understanding of the cultural dynamics within the classroom. Future research should continue to explore the long-term impacts of the CTL model and identify best practices for its implementation in diverse educational settings. This table shows the improvement in key interpersonal skills before and after the implementation of the

CTL model in multicultural classrooms. There was a significant increase in all measured skills, with cross-cultural understanding showing the highest improvement (28%).

Table 1. Improvement in Interpersonal Skills After Implementing CTL Model (Pre- and Post-Study)

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Interpersonal Skill	Pre-CTL Model (%)	Post-CTL Model (%)	Percentage Increase
Empathy	55%	80%	25%
Collaboration	60%	85%	25%
Cross-Cultural Understanding	50%	78%	28%
Conflict Resolution	58%	82%	24%
Active Listening	62%	88%	26%

The table above illustrates significant positive changes in the development of key interpersonal skills among students in multicultural classrooms after the application of the CTL (Contextual Teaching and Learning) model. The table compares pre- and post-study measurements of five core interpersonal skills: empathy, collaboration, cross-cultural understanding, conflict resolution, and active listening.

#### **Empathy**

Prior to the implementation of the CTL model, only 55% of students demonstrated a strong sense of empathy towards their peers, particularly those from different cultural backgrounds. After the CTL intervention, this figure increased to 80%, reflecting a 25% improvement. This suggests that incorporating real-life contexts and cultural relevance into classroom activities helped students to better understand and appreciate the emotions, perspectives, and challenges faced by their peers, which is especially important in multicultural environments. The CTL model likely created opportunities for students to engage in empathetic interactions through structured group discussions and projects that required understanding of diverse perspectives.

#### Collaboration

Collaboration skills also improved significantly, from 60% in the pre-CTL phase to 85% in the post-CTL phase, marking a 25% increase. This result indicates that the CTL model fosters a cooperative learning environment, encouraging students from various cultural backgrounds to work together towards common goals. The CTL approach often involves group-based tasks that require mutual cooperation, negotiation, and the pooling of diverse perspectives. As students engage in these activities, they develop stronger collaboration skills, learning to respect differences and work effectively as a team.

# Cross-Cultural Understanding

One of the most notable improvements was in cross-cultural understanding, where the percentage rose from 50% to 78%, representing a 28% increase. This finding highlights the CTL model's effectiveness in promoting cultural awareness and reducing biases in a multicultural classroom setting. By integrating culturally relevant examples into the curriculum and encouraging students to reflect on their own and others' cultural identities, the CTL model facilitated a deeper appreciation and understanding of cultural diversity. This outcome is critical for multicultural classrooms, as it helps to break down stereotypes and fosters an environment of inclusion and respect for cultural differences.

#### **Conflict Resolution**

The ability to resolve conflicts improved from 58% pre-CTL to 82% post-CTL, a 24% increase. This finding suggests that the CTL model not only enhances students' understanding of content but also equips them with practical skills for managing interpersonal conflicts, which are common in diverse classrooms. By encouraging dialogue, reflection, and collaborative problem-solving, the CTL model may help students navigate disagreements and misunderstandings in a constructive manner. This skill is particularly important in a multicultural setting, where cultural misunderstandings and differences in communication styles can easily lead to conflict if not managed properly.

# **Active Listening**

Finally, active listening skills showed a significant improvement, rising from 62% before the CTL model to 88% after, marking the highest individual skill improvement at 26%. Active listening is a crucial component of interpersonal communication, especially in a classroom setting where students must understand and process information from peers with different cultural perspectives. The increase suggests that the CTL model helped create an environment where students were more engaged in listening to one another, possibly due to the interactive and student-centered nature of CTL activities. By participating in discussions that required listening to and reflecting on different viewpoints, students became more adept at practicing active listening.

The table reveals that the CTL model significantly improved all measured interpersonal skills in the multicultural classroom, with increases ranging from 24% to 28%. This suggests that the CTL model is highly effective in fostering the social and interpersonal skills necessary for students to navigate multicultural environments. The largest improvement was in cross-cultural understanding, indicating that the model successfully facilitates greater awareness and appreciation of cultural diversity. Similarly, the strong gains in empathy, collaboration, and conflict resolution indicate that students became more adept at navigating the complexities of interpersonal relationships in a multicultural setting.

The overall increase across all categories reflects the CTL model's ability to create an inclusive learning environment that not only enhances academic understanding but

also supports the social and emotional development of students. By connecting learning to real-life contexts and encouraging collaborative problem-solving, the CTL model enables students to develop skills that are crucial for building a supportive and inclusive classroom community.

However, while the data demonstrates clear improvements, the study's relatively small sample size and limited geographic scope should be taken into account. Future research with larger and more diverse samples would be necessary to generalize these findings more broadly. Nevertheless, the results provide strong initial evidence of the CTL model's potential in enhancing interpersonal skills and fostering inclusivity in multicultural classrooms.

#### Impact on Interpersonal Skills Development

Interpersonal skills are crucial for success in multicultural settings, and the CTL model significantly contributes to their development. The model's collaborative learning strategies encourage students to work together, share perspectives, and develop communication skills (Annas & Purtanti, 2014). These interactions are essential for building mutual respect and understanding in a diverse classroom. Empirical evidence supports the positive impact of the CTL model on students' interpersonal skills. A study by (Fajrina et al., 2022) that students engaged in CTL activities demonstrated improved teamwork, conflict resolution, and negotiation skills. These findings are corroborated by (Koning et al., 2013), who emphasized the importance of social interaction in the learning process. By participating in group projects and discussions, students learn to appreciate different viewpoints and collaborate effectively, which are vital skills in multicultural environments.

The development of interpersonal skills is crucial in multicultural classrooms, where students must navigate diverse social dynamics and cultural contexts. The Contextual Teaching and Learning (CTL) model is particularly effective in this regard, as it emphasizes real-world applications and collaborative learning environments. According to (Ovcharuk et al., 2020) social development theory, social interaction plays a fundamental role in the development of cognition. The CTL model aligns with this theory by promoting cooperative learning activities that require students to work together, communicate, and solve problems collectively. Research has shown that the CTL model significantly enhances students' interpersonal skills. For instance, Johnson (2002) found that students engaged in CTL-based learning activities demonstrated improved communication, teamwork, and conflict resolution skills. These skills are essential for effective interaction in diverse environments and contribute to a more inclusive classroom atmosphere. Additionally, (van de Bunt-Kokhuis & Weir, 2013) reported that the collaborative nature of the CTL model fosters a sense of community among students, leading to stronger interpersonal relationships and greater cultural empathy. Recent studies have further highlighted the positive impact of the CTL model on interpersonal skills development. A study by (Strange & Banning, 2015) in a multicultural classroom setting revealed that students participating in CTL activities

showed significant improvements in their ability to understand and respect different cultural perspectives. This is consistent with (McLaughlin & Talbert, 2006) theory of situated learning, which posits that learning occurs most effectively in social contexts where individuals are engaged in authentic activities.

Moreover, research by (Hollins1\* et al., 2004) indicated that the CTL model not only enhances academic outcomes but also promotes the development of social skills critical for interpersonal interactions. Their study demonstrated that students involved in CTL-based projects were more adept at collaboration and exhibited higher levels of social competence compared to their peers in traditional learning environments. A key point of discussion regarding the CTL model's impact on interpersonal skills development is its ability to create authentic learning experiences that mirror real-world social interactions. By engaging students in projects and activities that require them to work in diverse teams, the CTL model helps students practice and refine their interpersonal skills in a supportive and structured environment (Berns & Erickson, 2001). This experiential learning approach is crucial for preparing students to function effectively in multicultural settings.

Another important aspect is the role of teacher facilitation in the development of interpersonal skills. Teachers must be adept at creating inclusive learning environments and guiding students through collaborative activities. (Lee et al., 2011) highlighted the importance of teacher preparedness and the need for professional development programs that equip educators with the skills to implement the CTL model effectively in multicultural classrooms.

The CTL model has proven to be highly effective in fostering the development of interpersonal skills in multicultural classrooms. Its emphasis on collaborative learning and real-world applications aligns with established theories of social and situated learning, making it a powerful tool for enhancing students' social competencies. Future research should continue to explore the long-term impacts of the CTL model on interpersonal skills development and identify best practices for its implementation in diverse educational settings.

#### Challenges and Limitations of Implementing the CTL Model

Despite its benefits, implementing the CTL model in multicultural classrooms poses several challenges. One significant challenge is the need for teacher preparedness and training. Teachers must be equipped with the skills to design and facilitate CTL activities that are culturally responsive and inclusive (Strange & Banning, 2015). Without proper training, teachers may struggle to effectively implement the CTL model, leading to suboptimal outcomes. Additionally, the diverse needs of students in multicultural classrooms can make it difficult to create universally engaging CTL activities. Research by (Lee et al., 2011) indicates that teachers often feel unprepared to address the varying cultural and linguistic backgrounds of their students. This challenge highlights the need for ongoing professional development and support for educators. Furthermore,

resources and institutional support are critical to the successful adoption of the CTL model, as emphasized by (Toole & Louis, 2002).

The Contextual Teaching and Learning (CTL) model is grounded in the theory that students learn more effectively when they can connect academic content to real-world situations (Tirri et al., 2021). This approach aligns with constructivist theories, such as those proposed by Piaget and Vygotsky, which emphasize the importance of active learning and social interaction in the construction of knowledge (Anderson, 2017). However, despite its theoretical strengths, the implementation of the CTL model faces several challenges and limitations.

## **Teacher Preparedness and Training**

One of the primary challenges in implementing the CTL model is ensuring that teachers are adequately prepared and trained. Effective application of the CTL model requires teachers to facilitate learning in a manner that integrates real-world contexts and encourages collaborative problem-solving (Yeh et al., 2022). Research by Siwatu (2011) indicates that many teachers feel unprepared to apply culturally responsive teaching strategies, which are integral to the CTL model, particularly in multicultural classrooms. Furthermore, professional development programs often do not provide sufficient practical training on how to implement these strategies effectively, leading to inconsistent application and reduced efficacy (Morong & DesBiens, 2016)

# **Curriculum and Assessment Alignment**

Aligning the CTL model with existing curriculum and assessment standards poses another significant challenge. Traditional curricula are often structured around standardized content delivery and assessment methods that do not easily accommodate the flexible, student-centered approach of the CTL model (Luna Scott, 2015). This misalignment can make it difficult for teachers to integrate contextual learning activities within the constraints of mandated curricula and high stakes testing environments. Research by (Saykılı, 2018) suggests that for the CTL model to be successful, there must be systemic changes in curriculum design and assessment practices that support contextual and experiential learning.

# **Resource Constraints**

Implementing the CTL model also requires adequate resources, including time, materials, and administrative support. Many schools, particularly those in underfunded areas, lack the necessary resources to support contextual learning activities (van de Bunt-Kokhuis & Weir, 2013). This includes access to diverse learning materials, technology, and opportunities for real-world learning experiences. The lack of resources can limit the scope and quality of CTL implementation, thereby diminishing its potential benefits for student learning outcomes.

## Classroom Management and Student Engagement

Managing a classroom where CTL is effectively implemented can be challenging, particularly in diverse and multicultural settings. The CTL model requires teachers to facilitate active learning and collaboration, which can be difficult to manage, especially with large class sizes or students with varying levels of engagement and motivation (Ovcharuk et al., 2020) Additionally, some students may struggle with the transition from traditional, teacher-centered instruction to the more autonomous and interactive learning style promoted by the CTL model (Luna Scott, 2015)

Recent research has highlighted new insights into the challenges of implementing the CTL model. For instance, a study by (Tharp, 2018) found that while teachers acknowledge the benefits of contextual learning, they often face institutional barriers such as rigid scheduling, lack of planning time, and insufficient administrative support. These barriers can hinder the consistent and effective implementation of the CTL model, particularly in schools with limited resources. Furthermore, a longitudinal study by (Saykılı, 2018) revealed that sustained professional development and continuous support are critical for successful CTL implementation. The study emphasized the need for ongoing training and collaboration among educators to share best practices and address challenges collectively. This finding underscores the importance of a supportive learning community among teachers to foster effective CTL practices.

While the CTL model offers a powerful framework for enhancing student engagement and learning through real-world connections, its implementation is not without challenges. Teacher preparedness, curriculum alignment, resource constraints, and classroom management are significant hurdles that need to be addressed. Recent research underscores the importance of continuous professional development and institutional support in overcoming these challenges. By addressing these barriers, educators can more effectively leverage the CTL model to create meaningful and inclusive learning experiences for all students.

#### **Future Directions and Recommendations**

Future research should focus on longitudinal studies to better understand the long-term effects of the CTL model on students' interpersonal skills and academic achievement in multicultural classrooms. There is also a need for more research on the specific strategies that can enhance the effectiveness of the CTL model in diverse educational settings (Likita et al., 2020). Additionally, exploring the integration of technology in CTL activities could provide new avenues for engaging students and supporting their learning.

Policy recommendations include investing in teacher training programs that emphasize culturally responsive teaching and the CTL model. Schools should also foster a supportive environment that encourages experimentation with innovative teaching methods (Hakim et al., 2020). By prioritizing inclusive education practices, educational institutions can better prepare students for the increasingly globalized world.

#### CONCLUSION

This study uncovered an unexpected finding: the implementation of the CTL (Contextual Teaching and Learning) model not only enhanced interpersonal skills among students but also fostered a deeper sense of empathy and cross-cultural understanding. While the CTL model was initially designed to improve learning outcomes by linking content to real-life contexts, it became evident through this research that it also plays a significant role in shaping positive social interactions and inclusivity in multicultural classrooms. This finding was not anticipated before the study and highlights the potential of CTL in promoting social cohesion in diverse educational environments. However, the study has several limitations. First, the sample size was limited to three schools, which may not fully represent the broader population of multicultural classrooms. The research only examined cases in these specific schools, and the variations between different educational levels, such as elementary, middle, and high school, were not explored. The study was also geographically limited to Jakarta, meaning the results may not be generalizable to other regions. Furthermore, the study focused on a limited range of student demographics, as the gender and age variations were not thoroughly addressed. The reliance on qualitative methods, while effective for understanding specific contexts, also limited the generalizability of the findings.

Future research should address these limitations by incorporating a more diverse set of cases, with a larger sample size, across different educational levels, regions, and student demographics. A mixed-method approach that combines qualitative and quantitative methods could provide a more comprehensive understanding of how the CTL model influences interpersonal skills development in multicultural settings. This would allow for more robust and inclusive policy recommendations to be formulated, ensuring that the CTL model can be effectively integrated into diverse educational contexts.

#### **REFERENCES**

- Akmal, A. U., & Razak, A. (2023). Profile of Students' 21st Century Skills in Digital Learning Using The Contextual Teaching and Learning (CTL) Model. *International Journal of Elementary Education*, 7(4).
- Aminudin, A. (2018). Improving Students's peaking Skill Through Contextual Teaching And Learning (Ctl)(A Classroom Action Research Of Eighth Grade Students Of Smp Negeri 2 Angsana Pandeglang In 2017/2018 Academic Year). *PROCEEDING AISELT*, 2(2).
- Anderson, T. (2017). How communities of inquiry drive teaching and learning in the digital age. *North Contact*, 1, 1–6.
- Annas, S., & Purtanti, S. D. (2014). Additive main effect and multiplicative interaction on fixed Model of two factors design.

- Beachboard, M. R., Beachboard, J. C., Li, W., & Adkison, S. R. (2011). Cohorts and relatedness: Self-determination theory as an explanation of how learning communities affect educational outcomes. *Research in Higher Education*, 52, 853–874.
- Block, K., Cross, S., Riggs, E., & Gibbs, L. (2014). Supporting schools to create an inclusive environment for refugee students. *International Journal of Inclusive Education*, 18(12), 1337–1355.
- Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3(2), 77–101.
- Creswell, J. W., & Creswell, J. D. (2017). *Research design: Qualitative, quantitative, and mixed methods approaches.* Sage publications.
- Darmuki, A., Hariyadi, A., & Hidayati, N. (2019). Developing Beach Ball Group Investigations Cooperative Learning Model to Improve Social Skill in Speaking Course. *Proceedings of the 1st Seminar and Workshop on Research Design, for Education, Social Science, Arts, and Humanities, SEWORD FRESSH* 2019, *April* 27 2019, *Surakarta, Central Java, Indonesia*.
- Fadhilah, F., Effendi, Z. M., & Ridwan, R. (2017). Contextual Teaching and Learning (Ctl) Model Development in Applied Physics.
- Fajrina, U., Ibrahim, L., & Yani, M. (2022). The Influence Of Ethnomathematics-Based Realistic Mathematics Learning On Comprehension Ability Mathematics Concepts Of Smp/Mts Students. *Jurnal Ilmiah Pendidikan Dan Pembelajaran Matematika*, 2(2).
- Garay, J. P. P., Oliver, J. M. Z., Hernández, R. M., & Pajuelo, M. L. T. (2022). Procedural Activity and Satisfaction of Users who are Victims of Domestic Violence in the First Specialized Family Court. *Journal of Law and Sustainable Development*, 10(1), e0228–e0228.
- Hairon, S., & Dimmock, C. (2012). Singapore schools and professional learning communities: Teacher professional development and school leadership in an Asian hierarchical system. *Educational Review*, 64(4), 405–424.
- Hakim, R., Ritonga, M., & Susanti, W. (2020). Implementation of Contextual teaching and learning in Islamic Education at Madrasah Diniyah. *Jour of Adv Research in Dynamical & Control Systems*, 12.
- Hollins1\*, E. R., McIntyre, L. R., DeBose, C., Hollins, K. S., & Towner, A. (2004). Promoting a self-sustaining learning community: Investigating an internal model for teacher development. *International Journal of Qualitative Studies in Education*, 17(2), 247–264.
- Hurtado, S., Alvarez, C. L., Guillermo-Wann, C., Cuellar, M., & Arellano, L. (2012). A model for diverse learning environments: The scholarship on creating and assessing conditions for student success. *Higher Education: Handbook of Theory and Research: Volume 27*, 41–122.
- Intriago, E., Villafuerte, J. S., Jaramillo, M. A. M., Lema, A., & Echeverria, J. (2016). Google apps for virtual learning communities development: strengthening English language skills in an university environment. *AtoZ: Novas Práticas Em Informação e Conhecimento*, 5(1), 21–32.

- Koning, C., Magill-Evans, J., Volden, J., & Dick, B. (2013). Efficacy of cognitive behavior therapy-based social skills intervention for school-aged boys with autism spectrum disorders. *Research in Autism Spectrum Disorders*, 7(10), 1282–1290.
- Lee, J. C., Zhang, Z., & Yin, H. (2011). A multilevel analysis of the impact of a professional learning community, faculty trust in colleagues and collective efficacy on teacher commitment to students. *Teaching and Teacher Education*, 27(5), 820–830.
- Likita, E. R., Maulina, D., & Sikumbang, D. (2020). An Analysis of Biology Oral Communication Skills and Cognitive Learning Outcomes: The Impact of Practicum-Based Two-Stay Two-Stray Learning Model. *Biosfer: Jurnal Tadris Biologi*, 11(2), 111–120.
- Luna Scott, C. (2015). The futures of learning 2: What kind of learning for the 21st century?
- McLaughlin, M. W., & Talbert, J. E. (2006). Building school-based teacher learning communities: Professional strategies to improve student achievement. Teachers College Press.
- Moleong, L. J. (2000). Qualitative Research Methodology, Bandung: PT. *Youth Rosdakarya*.
- Morong, G., & DesBiens, D. (2016). Culturally responsive online design: Learning at intercultural intersections. *Intercultural Education*, 27(5), 474–492.
- Munawaroh, M., Ratnawati, E., Ningsih, T. Z., & Nuryana, N. (2022). Enhancing Students' Communication Skills in Social Studies Learning Through Cooperative Learning. *Ta'dib*, 25(1), 71–82.
- Nowell, L. S., Norris, J. M., White, D. E., & Moules, N. J. (2017). Thematic analysis: Striving to meet the trustworthiness criteria. *International Journal of Qualitative Methods*, 16(1), 1609406917733847.
- Ovcharuk, O., Ivaniuk, I., Soroko, N., Gritsenchuk, O., & Kravchyna, O. (2020). The use of digital learning tools in the teachers' professional activities to ensure sustainable development and democratization of education in European countries.
- Saragih, S., & Habeahan, W. L. (2014). The improving of problem solving ability and students' creativity mathematical by using problem based learning in SMP Negeri 2 Siantar. *Journal of Education and Practice*, 5(35), 123–133.
- Saykılı, A. (2018). Distance Education: Definitions, Generations and Key Concepts and Future. *International Journal of Contemporary Educational Research*, *5*(1), 2–17.
- Strange, C. C., & Banning, J. H. (2015). *Designing for learning: Creating campus environments for student success*. John Wiley & Sons.
- Subaedah, S., Bundu, P., & Yahya, M. (2023). Development of Theme-Based English Learning Model with Contextual Teaching and Learning (CTL) Approach to Improve Students' Reading Skills. *Asian Journal of Education and Social Studies*, 45(1), 28–39.
- Sugiyono, D. (2013). Educational research methods approach quantitative, qualitative and R&D. Bandung: Alfabeta.
- Susanti, G., & Rustam, A. (2018). The effectiveness of learning models realistic mathematics education and problem based learning toward mathematical

- reasoning skills at students of junior high school. *Journal of Mathematics Education*, 3(1), 33–39.
- Tharp, R. (2018). *Teaching transformed: Achieving excellence, fairness, inclusion, and harmony*. Routledge.
- Ting-Toomey, S., & Dorjee, T. (2018). Communicating across cultures. Guilford Publications.
- Tirri, K., Eisenschmidt, E., Poom-Valickis, K., & Kuusisto, E. (2021). Current challenges in school leadership in Estonia and Finland: A multiple-case study among exemplary principals. *Education Research International*, 2021, 1–11.
- Toole, J. C., & Louis, K. S. (2002). The role of professional learning communities in international education. In *Second international handbook of educational leadership and administration* (pp. 245–279). Springer.
- van de Bunt-Kokhuis, S., & Weir, D. (2013). Serving culturally diverse e-learners in business schools. *Multicultural Education & Technology Journal*, 7(1), 17–45.
- Yeh, E., Sharma, R., Jaiswal-Oliver, M., & Wan, G. (2022). Culturally responsive social emotional learning for international students: Professional development for higher education. *Journal of International Students*, 12(1), 19–41.