

UNIVERSAL DESIGN FOR LEARNING: ACCELERATING LEARNING FOR ALL IN CONTEXT OF NEP-2020

Simeran Jeet Kour¹

Sobia Qadir²

Abstract

Universal Design for Learning has emerged as a transformative framework aimed at creating flexible inclusive and equitable learning environments for diverse learners. The Universal Design for Learning framework gives you multiple ways to present content, involve students, and assess their responses. It helps you respond to diverse learning needs at the point of instruction and supports flexible learning pathways. UDL seeks to remove learning barriers and accelerate academic growth for all students irrespective of their abilities, backgrounds or learning preferences. This paper examines how UDL functions as a catalyst for improving learning outcomes by promoting learning Autonomy enhancing motivation and enabling differentiated instruction.

Keywords: UDL, NEP 2020, Inclusive Education, Students, Education System

Introduction

The Universal design for learning (UDL) framework was developed in the 1990s by Dr. David Rose and his team at the Centre for Applied Special Technology (CAST). It was influenced by the universal design (UD) movement in architecture and product design in the United States, but applies those ideas to educational settings. UDL is based on the understanding that every learner approaches learning differently, where they have identified special educational needs. Therefore, it argues that curriculum should be purposefully designed from the very beginning not modified later to ensure that:

- Learners can access and understand information through multiple formats.
- Learners can be motivated and engaged by connecting instruction with their interests, strengths and background knowledge and

¹ Research Scholar, Department of Education, University of Kashmir

² Research Scholar, Department of Education, University of Kashmir

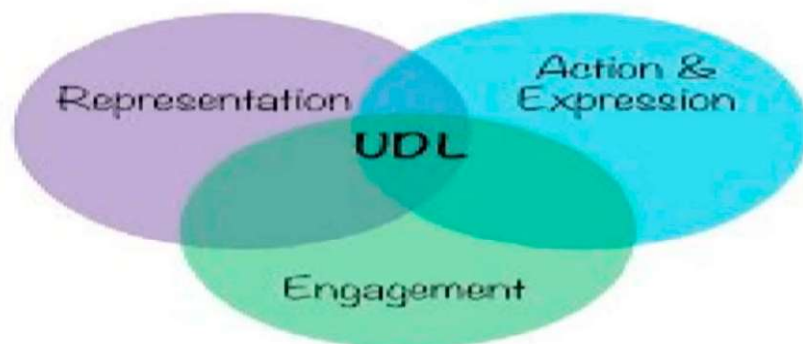
learners have different options to show what they have learned.

Although UDL evolved from concepts in architectural Universal Design, Rose and Colleagues emphasized that educational design is far more complex. Thus, they incorporated insights from neuroscience and progressive educational theories to shape the UDL framework.

The UDL Framework

The Universal Design for Learning (UDL) framework encourages educators, administrators and learners to view learning as a complex whole rather than an isolated component. Instead of focusing only on individual elements such as accessibility, UDL principles, or neuroscience. UDL stress how these pieces fit together to form a complete picture of learning (Perkins, 2009). According to the model, three interconnected principles support diverse classroom needs during instructional planning:

- 1) Multiple Means of Representation
- 2) Multiple Means of Expression
- 3) Multiple Means of Engagement



Source: <https://www.carleton.edu/its/blog/how-you-can-implement-universal-design-for-learning-udl-in-small-steps/>

These principles correspond to the brains learning systems, often described as the what, how and why of learning guiding educators to

design lessons that are accessible and meaningful for every learner.

UDL is supported by more than three decades of research in Neuroscience on how the brain processes information, learning differences and learning styles (Hall et al., 2012). Through this research, three brain networks have been identified as central to learning: recognition networks, strategic networks and effective networks (Courey et al., 2013 & Katz, 2012). Based on these networks UDL promotes flexibility and choice so that learners can engage with content in ways that best align with their individual strength.

Applying these principles requires curriculum and instruction to offer multiple ways for students to access content, express what they know and stay motivated (Lapinski et al., 2012; Ralabate, 2011). Multiple means of representation ensure students can take information in different formats (Abbel et al., 2011). Multiple means of expression provide different tools and methods for students to demonstrate learning and overcome barriers (Katz, 2012). Multiple means of engagement built motivation and ownership of learning by offering meaningful choices (Samuel, 2007). When teachers plan using all three-principles learning becomes more flexible and adaptive, allowing each learner to participate and succeed uniquely. By deliberately integrating Neuroscience and the three UDL principles, teachers can design inclusive curricula that enhance learning goals, instructional methods and outcomes for all students (Ralabate, 2011). UDL requires purposeful planning to ensure that students engage in deep inquiry-based learning that helps them build authentic understanding and achieve academic success (Willms et al., 2009). Through this approach, classrooms become truly inclusive where students can display their learning in personally meaningful ways and be accepted for who they are and where they are developmentally (Dalton & Brand, 2012).

Ultimately the UDL framework is realized when students learn in an atmosphere that values developmental differences, supports individual learning styles and builds shared understanding of curriculum. Such outcomes depend on thoughtful instructional design grounded in knowledge of brain networks and deliberate use of multiple representation, expression and engagement pathways.

Who Benefits from UDL

Universal Design for learning supports both students and teachers by nurturing a classroom culture in which learners value one another similarities and differences. Rather than relying on a uniform curriculum, UDL promotes equal learning opportunities for all which enhances students' involvement and accommodates diverse learning needs (Gargiulo & Metcalf, 2013). Teachers also gain experience through the use of improved instructional practices that promote inclusivity and collaboration. Overall, UDL benefits every stakeholder in education by enabling a deeper understanding of learners and allowing educators to support students from the earliest stages of schooling. Although UDL was initially developed to ensure the inclusion of students with special needs. It has evolved into an instructional framework that benefits all learners (Ralabate, 2011). It promotes flexibility in learning processes, learning products and ways of demonstrating knowledge (Katz, 2012). This allows learners to showcase them strengthens whether musical. Kinetical, linguistic in varied and meaningful final products. UDL benefits learners who may struggle with traditional instruction by providing them more meaningful and engaging experience (Samuels, 2007). Teachers using traditional methods often struggle to achieve high level of engagement and achievement in their classrooms (Willms et al., 2009). Educational stake holders increasingly call for strategies that address the needs of learners with varied abilities within the general classrooms (Dalton & Brand, 2012). By applying UDL principles teachers can proactively reduce barriers and built flexibility into the curriculum making instruction more effective without increasing their workload (Ayala et al., 2012). The UDL framework strengths teachers' natural ability and motivation to design meaningful learning experience by providing guidelines for flexible curriculum development and instructional practices. At any great level teachers can use UDL to manage classroom demands and offer equitable instruction (Dalton & Brand, 2012). UDL also promotes collaboration among educators by encouraging joint planning and additional professional dialogue. Additionally, it requires teachers to engage in continuous conversations with

students about their learning styles, strengths and skill needs.

Role of UDL in Inclusive Education

Universal Design for Learning (UDL) can be effectively integrating into inclusive education to create equitable and accessible learning experience for all students. Inclusive education focuses on accommodating learners with diverse needs in general classrooms and UDL supports this goal by offering multiple ways for students to access content, stay engaged by demonstrate their understanding. By proactively removing learning barriers through flexible material, assistive technology friendly resources and alternative formats. UDL makes instruction more accessible. It also naturally supports individualized learning by allowing students to choose methods that align with their strength, making differentiation easier for teachers and beneficial for all learners including those with disabilities and those who are gifted. UDL further promotes collaboration among teachers, specialists and support staff by offering a shared framework for planning instruction and foster a school culture that values diversity and inclusion. Additionally, UDL also provides a strong foundation for ongoing professional development, helping teachers to refine their methods and respond effectively to students evolving needs. Overall, by embedding UDL within inclusive education every student can participate, engage and succeed in a supportive learning environment.

UDL and NEP 2020

The National Education Policy 2020 presents a transformative vision for India's education system and its goals closely align with the principles of universal design for learning. NEP 2020 stresses equity and inclusion by ensuring quality education for all learners including those from disadvantage backgrounds and those with disabilities which UDL supports by offering accessible and flexible learning options. The policy's emphasis on curricular flexibility, student choice and multi-disciplinary learning is also reflected in UDL's approach of providing varied ways for students to access, engage and express their learning. NEP focuses on multi lingual education is strengthened by UDL ability to present content in different languages to support

linguistic diversity. Furthermore, NEP's call to reduce high stakes examination in favour of continuous and comprehensive assessment aligns with UDL's promotion of multiple forms of evaluation that match learner strength. The policy's encouragement of inclusive classroom practices and ongoing teacher professional development corresponds with UDL's structured guidance for adapting instruction to diverse needs. Additionally, NEP 2020 commitment to support gifted and talented learners is also supported by UDL which offers opportunities for enrichment and advance learning through differentiated instruction.

Conclusion

Over the past two decades UDL has emerged as an effective instructional model for promoting universal principles of learning design across schools and higher education institutions. Although, implementing UDL at all levels remains challenging continuous efforts are being made to expand its adoption, driven by its core philosophy that no learners should be excluded from meaningful educational access built on three foundational principles like multiple means of representation, action and expression and engagement offers a flexible interactive and proactive framework that benefits both general and disabled learners. As a paradigm shifts in inclusive education, UDL demonstrates strong potential to address diverse pedagogical needs within heterogeneous classrooms. However, its successful implementation requires significant transformation, moving from rigid, one sizes fits all curriculum models to dynamic, need based systems of content delivery and assessment. Never the less, if all structured reforms are embraced UDL holds promise as a powerful approach in Indian Education System.

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