

Universal Design for Learning (UDL)

Code ITL-802	Credit Hours 3-0
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Course Description

Universal Design for Learning (UDL) is a set of curriculum design and delivery principles aimed at creating an inclusive and accessible learning experience for students. It focuses on the development of flexible curriculum materials and activities that meet the individual learning needs of a wide range of student abilities and disabilities. To achieve this goal, the UDL approach takes advantage of advances in two fields: (1) the cognitive neuroscience of learning and individual differences and (2) the universal design of educational technologies and multimedia. This course will explore the recent advances in both of these fields through appropriate readings and through media construction exercises designed to prepare and support students to optimize the challenge of individual differences through universal design for learning.

Course Objectives

At the end of the course, the students will be able to:

- Understand the principles of UDL
- Analyze the variation among learners in terms of their cognitive abilities and learning preferences through the lenses of the three brain networks and the theories of learning
- Demonstrate understanding through hands-on experience of implementing UDL in classrooms through semester project

Text Book:

1. Meyer, A., Rose, D. H., & Gordon, D. T. (2014). *Universal design for learning: Theory and practice*. CAST Professional Publishing.

Reference Book:

1. Hall, T. E., Meyer, A., & Rose, D. H. (Eds.). (2012). *Universal design for learning in the classroom: Practical applications*. Guilford Press.

Prerequisites

None

ASSESSMENT SYSTEM FOR THEORY

Quizzes	10%
Assignments	10%
Mid Terms	30%

Semester Project	10%
ESE	40%

Teaching Plan

Week No	Lectures	Topics
1	Lecture 1 & 2: Lecture 3:	Introduction to UDL & Inclusive Education Understanding UDL and its Three Principles
2	Lecture 4 & 5: Lecture 6:	UDL Practice 1: Analysis of Existing Products UDL Practice 2: Analysis of Existing Products (Contd.)
3	Lecture 7 & 8: Lecture 9: Quiz 1	UDL Practice 3: Experimenting with enhanced resources of vocabulary, syntax, language and symbols UDL Practice 4: Improved Lesson Planning with UDL
4	Lecture 10 & 11: Lecture 12: Assignment 1	Theories of learning: behaviorism, cognitivism, constructivism, socio-constructivism, community of learners UDL Practice 5: Design activities and scaffolds for addressing a child's zone of proximal development (ZPD) Submission of 2- 3 paged project idea along with a short presentation
5	Lecture 13 & 14: Lecture 15:	UDL and curriculum – Goals, Methods, Materials and Assessments Understanding the variability of learners – Introduction to 'differentiated learning' Techniques to address to individual learning barriers Quiz 2
6	Lecture 16 & 17: Lecture 18: Assignment 2:	UDL in Action: Language, History and Art UDL Practice 6: Exploring UDL implementation in language development, History and Art Submission of Literature Review
7	Lecture 19 & 20: Lecture 21:	UDL in Science & Mathematics UDL Practice 7: Exploring UDL implementation in Science & Mathematics in Classrooms
8	Lecture 22 & 23: Lecture 24: Assignment 3:	UDL in Different Educational Contexts UDL Practice 8: Exploring UDL implementation in Different Educational Set Ups Submission of Design Tools
9	Mid-Semester Break	
10	Lecture 25 & 26: Lecture 27:	Expert Learning Case Studies and Best Practices
11	Lecture 28 & 29: Lecture 30:	UDL Unplugged: Seed Lesson Quiz 3

12	Lecture 31 & 32: Lecture 33: Assignment 4:	Teacher's Community of Practice UDL Practice 9: Teacher's Community of Practice Submission of Data Analysis
13	Lecture 34 & 35: Lecture 36:	UDL and Instructional Design UDL Practice 10: UDL and Instructional Design
14	Lecture 37 & 38: Lecture 39:	Inclusive Education & Blended Learning STEM Framework for students with disabilities
15	Lecture 40 & 41: Lecture 42:	Quiz 4 STEM Framework for students with disabilities (Presentation)
16	Lecture 43 & 44: Lecture 45:	Project Presentation UDL Evaluation and Continuous Improvement
17	Lecture 46 & 47: Lecture 48:	Revision Revision
18	End Semester Break	