



4 Courses

Fundamentals of Digital  
Design for VLSI Chip Design

VLSI Chip Design and  
Simulation with Electric VLSI  
EDA Tool

Design of Digital Circuits  
with VHDL Programming

FPGA Architecture Based  
System for Industrial  
Application

L&T  
EduTech

Feb 11, 2025

**Naveen Velgappally**

has successfully completed the online, non-credit Specialization

# Chip based VLSI design for Industrial Applications

Embark on a transformative journey into Very Large-Scale Integration (VLSI) Design, exploring semiconductor technology and chip design intricacies. Dive into digital design fundamentals, sequential circuits, memory, and programmable logic. Learn VLSI chip design and simulation with Electric VLSI EDA Tool, focusing on CMOS technology and IC design principles. Master VHDL programming using Xilinx ISE for digital circuit design, and delve into FPGA architecture for industrial applications with Vivado. Gain hands-on experience in designing digital logic circuits, sensor interfacing, and communication protocols (RS232, SPI, I2C), and implementing IoT solutions.

Subject Matter Experts  
L&T Edutech

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