



VLSI

**(VERY LARGE SCALE
INTEGRATION)**

VLSI (Very Large Scale Integration)

Embark on an enriching journey into the world of electronics and chip design with Internz Learn's VLSI Design program. VLSI, short for "Very Large Scale Integration," empowers our modern world by seamlessly integrating thousands, or even millions, of transistors onto a solitary silicon chip.

Why Choose VLSI Design?

- 1. Innovation:** VLSI engineers are at the forefront of technological innovation, crafting the buildingblocks of revolutionary devices.
- 2. High Demand:** The demand for VLSI professionals remains consistently high, making it a financiallyrewarding and sought-after career path.
- 3. Versatility:** VLSI expertise opens doors across industries, from consumer electronics to aerospace.

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Program Overview

01



Learn from basic to
advance level in
VLSI

02



Gain knowledge

03



Claim training
completion certificate

04



Work in 10+ real time
projects

05



Gain experience

06



Claim internship
completion certificate

**Tech vedhu offers a comprehensive
2-month
Industrial Training and
Internship program designed
to provide students and
aspiring professionals with
valuable hands-on experience
in various industries.**



This program is carefully structured to bridge the gap between theoretical knowledge gained in academic settings and practical skills required in the real world.

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Duration: The program spans a duration of **2 months**, providing participants with an hands-on experience to gain industry-specific skills and insights.

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1st Month - Industrial Training

Industry Experts: Participants will have the opportunity to learn from industry experts and professionals who will mentor and guide them throughout the Training and internship period. This mentorship can be invaluable for networking and gaining insights into the field.

2nd Month Industrial Internship.

Projects : Participants will be assigned with 2 Real-Time industry projects
(1st minor - Individual Project) (2nd Major - Group Project)

relevant to their chosen industry. These projects may range from software development and engineering design to marketing campaigns and financial analysis.

Hands-on Experience: The program emphasizes practical learning through hands-on

projects, real-world problem-solving, and exposure to industry-specific tools and

Feedback and Evaluation: Regular feedback sessions and evaluations are conducted to

monitor your progress and provide constructive feedback for improvement.

Overall, TechVedhu 2-month Industrial Training and Internship program is designed to empower participants with practical skills and industry exposure, making them more competitive and ready for the job market in their chosen field.



FREE ADDITION IN 3RD MONTH

{Placement Assistance & Streaking Challenge }

Placement Assistance by Tech Vedhu

Techvedhuisaplatformthatoffersplacementassistance services to students and job seekers.

MOCK INTERVIEWS

Polishing Your Interview Skills through Realistic Simulations.

PERSONALITY DEVELOPMENT SESSIONS

Enhancing Your Personality for Personal and Professional Growth.

RESUME BUILDING SESSIONS

Mastering the Art of Crafting a Winning Resume.

Job Application Strategy

Strategizing Your Way to a Successful Job Application.

Networking Support

Fostering Invaluable Connections for Professional Advancement.

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LEVEL UP

These 5 sessions will be conducted for a duration of 5-6 days and can be repetitive on basis of the mentor and students interaction.



STREAKING CHALLENGE GAMIFIED SESSION BY TECH VEDHU

The "StreakingChallengeGamifiedSession" by Techvedhuisan engaging and interactive learning experience designed to motivate and encourage participants.

Gamification Elements:

Leaderboards: Participants are ranked on leaderboards based on their performance. **Badges and Rewards:** Achieving milestones or meeting specific goals can earn participants with streaks and then Goodies & rewards

Progress Tracking: Participants can monitor their progress in real-time, providing a visual representation of their Streak level.

Community Engagement : Participants are encouraged to connect with peers who share similar challenges. This creates a supportive community where individuals can motivate and hold each other accountable.

The Streaking Challenge Gamified Session by techvedhu offers a fun and effective way to foster positive habits

PROGRAM HIGHLIGHTS

- 30+ Hours of Immersive Learning.
- 2 Real-time Projects for Practical Exposure.
- Student-Friendly Timings to Suit Your Schedule.
- Access to Both Live and Recorded Sessions for Flexibility.
- Globally Accepted Certifications to Elevate Your Credentials.
- Mentor Guidance to Navigate Complex Concepts.



A large, stylized, iridescent 3D text "GAMER" is positioned above a "LEADERBOARD". To the right, four cartoon-style gamers are shown at their desks with computer monitors, wearing headsets. Below the leaderboard is a table showing top players:

| Rank | Player Name | Score |
|------|-------------|-------|
| 1 | Player Name | 2980 |
| 2 | Player Name | 2721 |
| 3 | Player Name | 2579 |
| 4 | Player Name | 1874 |
| 5 | Player Name | 1756 |

The background features vertical decorative bars in blue, green, and yellow on the right side.

Upskilling Process

- Gain Comprehensive Knowledge:

Acquire in-depth knowledge in VLSI principles and applications.

A

- From Basics to Advanced:

Journey from VLSI fundamentals to advanced concepts.

B

- Claim Training Completion Certificate:

Receive a training completion certificate as a testament to your expertise.

C

D - Hands-on Projects

Work on 10+ real-time projects, gaining practical experience.

E - Professional Experience

Elevate your skills and gain valuable industry experience.

F - Claim Internship Completion Certificate:

Cap off your journey with an internship completion certificate, marking your readiness for the industry.

Curriculum

- **Introduction to VLSI:**

Begin your journey with an introduction to VLSI, understanding its principles and applications.

- **Introduction to Linux:**

Master the Linux environment, a vital tool in VLSI development.

- **VLSI Design**

* **Digital System:** Dive into digital circuit design, the cornerstone of VLSI.

* **MOS Transistor:** Explore the intricacies of MOS transistors, fundamental to chip design.

* **MOS Inverter:** Delve into MOS inverter design, a pivotal component of VLSI.

* **FPGA Technology** Discover the fascinating world of Field-Programmable Gate Array technology.

- **CMOS Fundamentals**

Grasp the core concepts of Complementary Metal-Oxide-Semiconductor technology.

- **Timing Analysis with Ideal Clocks:**

Learn to analyze and optimize chip timing.

- **Advanced Digital Design:**

Elevate your digital design skills to an advanced level.

"For a more comprehensive curriculum overview, please visit our website at www.techvedhu.com."

Our Projects:

Designing of Logic Circuit with Power Efficiency using Adiabatic Method.

01

Transformation of Discrete Wavelet-based on 3D Lifting.

02

Designing of SFQ Multiplier with 4-bit Efficiency through High-Speed Hardware.

03

Accumulator-based Low Power & High-Speed Multiplier Implementation with SPST Adder & Verilog.

04

Cryptography Processor used in Smart Cards with Efficient Area.

05



Tools used

Synopsys®

cadence® BLOG

SIEMENS

ALDEC®
THE DESIGN VERIFICATION COMPANY



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