

VLSI Design Laboratory:

GTU established the Semiconductor Chip Design Laboratory under the Chips2Startups Program of Ministry of Electronics and Information Technology (MeitY) and ICICI Foundation. The Laboratory is a state-of-the-art Electronic Design Automation (EDA) tools, FPGA boards dedicated computer systems, and space. In the laboratory, students can actively engage in semiconductor integrated circuits/chip design, testing, and verification using (EDA) tools of, namely Cadence, Synopsis, Multisim, and LabView. The laboratory is provided for all PG students of VLSI design, Ph.D. scholars to hands on practices, carry out PG/Ph.D. dissertation on industry defined/real-time projects and research work in the domain of semiconductor technologies.



VLSI LAB Resources

1) Hardware

Sr. No.	Equipment Name	Qty	Specification
1	Desktop PC Lenovo (Intel core i7)	20	• Lenovo Thinkcentre M70T • Processor: Intel Core i7-13700 • 1.5 GHz to 5.1 GHz • RAM : 64 GB • SSD : 1TB
2	Workstation (Intel core i7)	1	• Dell Workstation Precision 3660 Tower • Processor: Intel Core i7-13700 (25 MB cache, 12 cores, 24 threads, up to 5.2 GHz Turbo, 65 W) • RAM : 64 GB DDR5 (4400 MT/s) • Nvidia Quadro 8GB DDR-6 Graphics Card • SSD : 1TB • Windows 11 Pro
3	Projector System PC	1	• Acer Veriton S2690G • Processor: Intel Core i5-12400 • Clock Speed: 4.04 GHz • RAM : 8 GB DDR4 • SSD : 512 GB

2) Software

Sr. No	Software Details	Funded / Provided by
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1	Cadence Virtuoso	Chips2Startups Program of Ministry of Electronics and Information Technology (MeitY) ICICI Foundation
2	Cadence Innovus	
3	Cadence Genus	
3	Cadence Xcelium	
4	Cadence Incisive	
5	Cadence Conformal	
6	Cadence Modus	
7	Cadence Tempus	
8	Cadence Voltus	
9	Synopsys Verdi	
10	Synopsys VCS	
11	Synopsys tcad_taurus	
12	Synopsys tcad_sentaurus	
13	Synopsys spyglass	
14	Synopsys Prime	
15	Synopsys PPower	
16	Synopsys Pwave	
17	Synopsys nanotime	
18	Synopsys customsim	
19	Synopsys embedit	
20	Synopsys euclid	
21	Synopsys finsim	
22	Synopsys hspice	
23	Synopsys icvalidator	

24	Ni Multisim	
25	Ni Ultiboard	
26	Ni Labview	