

VLSI

Silicon CMOS or CMOS VLSI technology has become the dominant fabrication process for relatively high performance and cost effective VLSI circuits in modern industry. In this courses we provide concepts of MOS integrated circuits and coding of VHDL and Verilog.

The course involves a span of 50 hours where the student will be trained from the basic level to the industrial level with hands on real time projects involving Verilog and VHDL coding.

The students will be given course completion certificate at the end of the course and will be assisted in placements.

The course involves 3 stages of learning VLSI

1. Beginner level
2. Intermediate level
3. Advanced level

The beginner level involves the

- basic setup of Xilinx ISE environment on the laptop
- learning about basic commands used in xilinx
- the GUI of Xilinx ISE
- Basics of programming language
- How to use different languages like dataflow, structural languages

The intermediate level involves

- Applying different methods
- Learning about modelsim
- Simulation and debugging
- Learning about design summary
- Types of verification processes

The advanced level involves

- Applying those methods learned in previous levels on mini projects
- In this level the candidate will be working on real time examples.
- Basics on Modelsim will be provided.
- How to use Verilog code and dump the code onto FPGA hardware