SEMI DESIGN

RTL DESIGN & PHYSICAL DESIGN

15 Days Workshop Curriculum

Phone Number

+91-9599745251

Visit Our Website

www.semidesign.in

PROTOCOLS WORKSHOP

SEMI DESIGN

Day - 1

Introduction to VLSI, ASIC Design flow

Detailed discussion on Front-end domain & Back-end domain

RTL Design & Physical Design Overview

Day - 2

RTL Design using Verilog HDL

Synthesis & Simulation Hands on Lab sessions

Combinational Logic circuits discussion

Day - 3

Procedural assignment, Continuous assignment statements

Blocking & Non-blocking assignments

PROTOCOLS WORKSHOP

SEMI DESIGN

Day - 4

Sequential Logic circuits discussion

Registers, Counters - Part 1

Hands on Lab Sessions

Day - 5

Registers, Counters - Part 2

FSM Design using Verilog HDL, Lab session

Day - 6

FIFO memory RTL Design & Verification

Interview Questions Discussion

PROTOCOLS WORKSHOP

SEMI DESIGN

Day - 7

Introduction to PD flow and Importance of Linux in PD

CMOS Design examples

Day - 8

CMOS Design Advanced discussion

Construction of Basic gates using CMOS and analysis by Tanner

Interview Q/A Discussion

Day - 9

Synthesis flow part 1and input files discussion

Synthesis flow part 2 (.lef/.lib/.upf/.spef)

PROTOCOLS WORKSHOP

SEMI DESIGN

Day - 10

Floorplan and .ndm library brief

Static Timing Analysis - part 1

Day - 11

STA part 2

Placement and Routing

Day - 12

Clock tree synthesis with Industry approach

Physical verification - Lab sessions

PROTOCOLS WORKSHOP

SEMI DESIGN

Day - 13

physical Signoff

tcl scripting, commands and script files

Day - 14

UART Protocol & Project Discussion

RTL Design & Lab Session

Day - 15

Interview Q/A Discussions

Assignment Q/A Discussion

Industry Approach

Required Projects

COURSE ASSISTANCE

SEMI DESIGN

Live Sessions

Batch starting from September 5th, 2024

Alternate days live sessions and assignment practice

Code Access

PPT and materials will be provided

Codes will be provided

Workshop fee

RTL Design & Physical Design in 1 Workshop - Fee 4999/-

Last date for registration September 1st, 2024