

## Online On-demand – Designing with VHDL

**Sandeepani is the training division of CoreEL Technologies (I) Pvt Ltd and Authorized Training Provider for AMD-Xilinx in India**

### Course Description:

This self-paced course provides a thorough introduction to the VHDL language. The program comes with insightful theory lectures, lab code and lab demos. The emphasis is on employing structural, register transfer level (RTL), and behavioral coding styles in VHDL.

### Who can attend?

- Undergraduate or post graduate students interested in brushing up their skills in VHDL
- Faculty members and working professionals interested in up-skilling

### Pre-requisites:

- Knowledge of digital circuits

### Access:

- Login and password will be shared within 1 business day after payment and registration
- Content will be made available for 1 month from start of access

### Software Tools:

- Any HDL simulator, such as ModelSim, QuestaSim and Vivado. Demos are on Vivado

### What do I gain?

- Implement the VHDL portion of coding for synthesis
- Identify the differences between behavioral and structural coding styles
- Use concurrent and sequential control structure to regulate information flow
- Simulate a basic VHDL design
- Write a VHDL testbench and identify simulation-only constructs
- Modeling FSMs – Mealy and Moore

### Course Contents:

- Chapter 1 – The Shape of VHDL
  - Video lecture
- Chapter 2 – Operators and Data Flow Modeling
  - Video lecture
  - Lab code and demo
- Chapter 3 – Structural Modeling
  - Video lecture
  - Lab code and demo
- Chapter 4 – Behavioral Modeling
  - Video lecture
  - Lab code and demo
- Chapter 5 – Testbenches in VHDL
  - Video lecture
  - Lab code and demo
- Chapter 6 – Modeling FSM
  - Video lecture
  - Lab code and demo

**Demo video:** <https://sandeepani-training.com/elearn/lesson/vhdl-ch1>

**Course Fee:** INR 4,999/- (Inclusive of tax. Course fee is non-refundable)

**Registration link:** [Click here to register](#)

**Payment Guidelines:**

Participants of Sandeepani training modules can make the course fee payment through online transfer via Google Pay/PhonePe/UPI using the below details and proof of the same to be scanned & mailed to [training@coreel.com](mailto:training@coreel.com). For assistance, contact us: +91-9844182555, +91-9686690000.

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