



# VISION INNOVATIVE SYSTEMS



VISION INNOVATIVE SYSTEMS,  
*# 26, 4th cross, 1st Main, Ittamadu, BSK 3rd Stage,  
(Near Sai Motors on Karthriguppe 100ft ring road)  
Bangalore—560085*



# Embedded Training

**Introductory  
Offer!!!  
Special  
Discounts!!!**

**100% Placement Assistance**

**Redefining  
Embedded System  
Design**

**Embedded  
Training /  
Development**

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INDIA*

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[vision.inovativesystems@gmail.com](mailto:vision.inovativesystems@gmail.com)



## **Module I: Embedded System Design**

This course is targeted towards students of Diploma / Bachelors in Electronics / Computer Science. This course includes all necessary topics to learn basics of Embedded System Design. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Contents:** Introduction to Embedded Systems, Foundation – Embedded C, Processor and Memory Organization, 8051 / PIC Microcontrollers (8-bit micro-controllers), Interfacing with peripherals, Developing drivers for interface protocols, Mini Project

## **Module II: Advanced Embedded System Design**

This course is targeted towards students of Bachelors in Electronics (or completed module I). This course includes all necessary topics to learn advanced concepts of Embedded System Design, including RTOS. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Content:** Introduction to Embedded Systems, Foundation – Embedded C, Processor and Memory Organization, ARM Controllers (32-bit), RTOS Concepts,  $\mu$ COS on ARM Platforms, System design using  $\mu$ COS/ARM, Device Drivers and Interrupt Servicing Mechanism, Embedded networking, TCP/UDP socket programming, Mini project

## **Module III: PCB Design**

This course is targeted towards students completed module I and module II. This course includes all necessary topics to learn advanced concepts of PCB Designing. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Content:** Introduction to PCBs, PCB Terminologies, PCB Fabrication and Assembly Process, Symbol creation, Schematic capture, Library creation, Concepts of Layout (P&R), Mini project

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# VLSI Training

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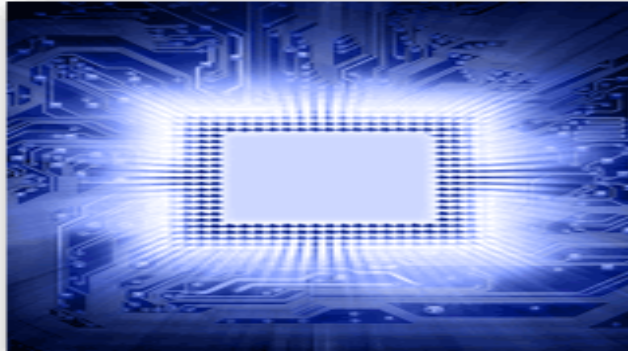
**Redefining  
VLSI System  
Design**

**VLSI System  
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## Module I: Basic Hardware Design

This course is targeted towards students of Diploma / Bachelors in Electronics. This course includes all necessary topics to learn basics of VLSI System Design. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Contents:** Basic and Advanced Hardware design concepts, Digital design fundamentals, Verilog, Verification, Synthesis, Placement and Routing (Prototyping), Mini project.

## Module II: Programmable SoC (System-on-Chip) Design

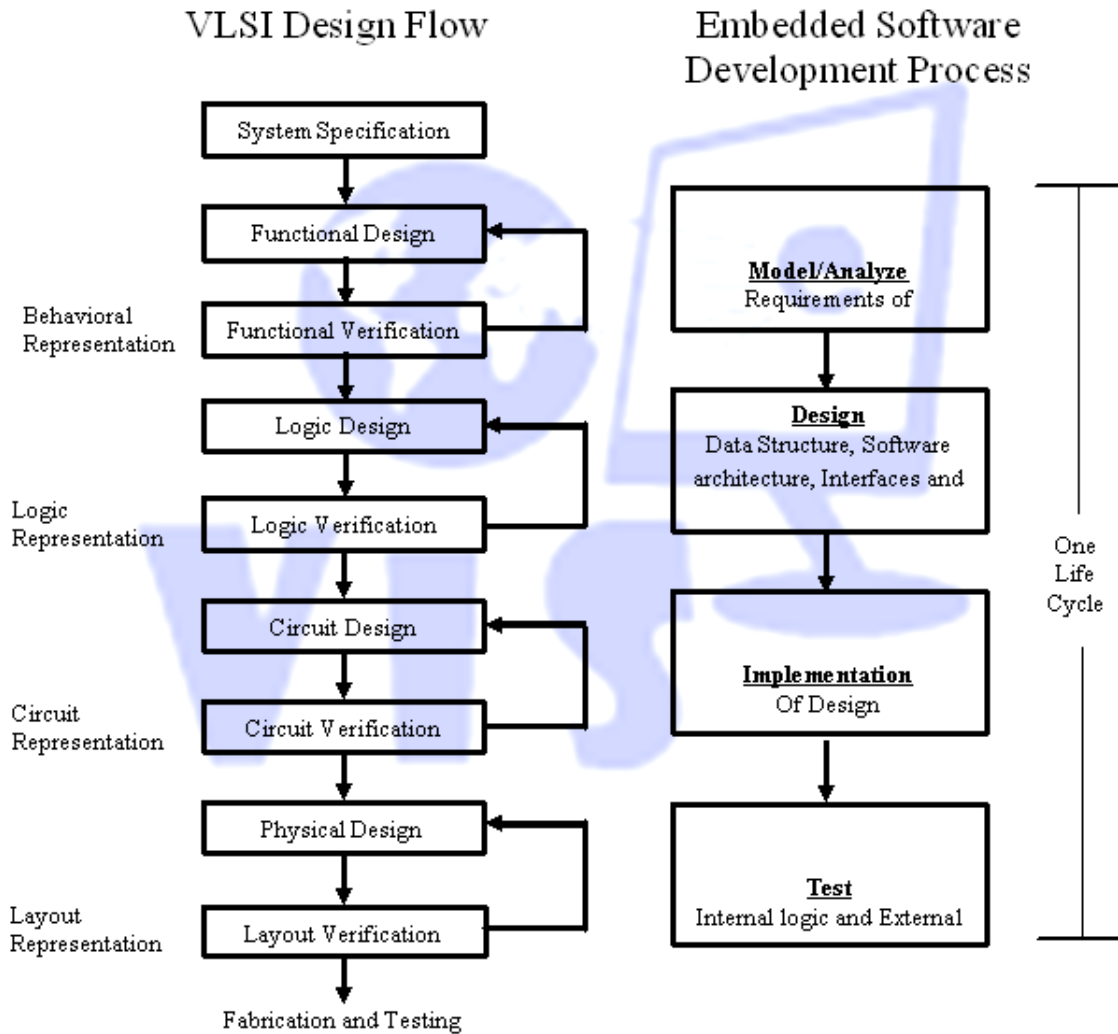
This course is targeted towards students of Bachelors in Electronics (or completed Module I). This course includes all necessary topics to learn advanced concepts of VLSI System Design, including SOC Design. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Content:** SoC Concepts, Logic synthesis and Implementation methods, On-chip processor and peripheral interfacing & Hardware and Software Trade-offs, Mini project

## Module III: Advanced Verification Techniques

This course is targeted towards students of Bachelors in Electronics (or completed Module I). This course includes all necessary topics to learn advanced concepts of VLSI System Design. With the inclusion of project the course is more complete where the trainees can start working immediately.

**Course Content:** Functional Verification methodologies for multimillion gate designs, full chip functional verification environment using object oriented programming, constraint random generation and assertions based on Verification Methodology Manual, Mini project



“There is only one good, knowledge, and one evil, ignorance”

Socrates (469 BC - 399 BC), from Diogenes Laertius, Lives of Eminent Philosophers

“Knowledge must come through action; you can have no test which is not fanciful, save by trial”

Sophocles (496 BC - 406 BC), Trachiniae

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