WHY CAREER IN VLSI?

The vision of ISM (India Semiconductor Mission) is to build a vibrant semiconductor and display design and innovation ecosystem to enable India's emergence as a global hub for electronics manufacturing and design in a more structured, focused, and comprehensive manner through various mechanisms.

The Programme for Development of Semiconductors and Display ManufacturingEcosystem in India was notified on 21.12.2021 with a total outlay of Rs. 76,000 crore by Prime minister.A demand in semiconductor industry in India is forecasted.

PROGRAM OFFERED:

B.E Electronics Engineering VLSI Design and Technology to cater the nations with intakeof 60 was started at CBIT.

SPONSORED PROJECT:



The Design Fabrication and Development of Silicon Proven IP Core for High Resolution ADPLL". Sponsored by Ministry of **Electronics and Information Technology** (MeitY), Under Scheme of Chips to Startup (C2S)-Category-II, Phase-I. Sanctioned amount: 1.91 Crores (INR) in association with Osmania University for

AVAILABLE SOFTWARES:

Industry tools for VLSI development are available in the department.





VIVADO



cadence

AVAILABLE HARDWARES





PynqZ2 Board

Arty A7-100T

Boolean Board



Micron to set up \$2.75 billion semiconductor unit in Sanand

development of logic to silicon process.

Prospects of the Undergraduate Course B.E. – Electronics Engineering (VLSI Design and Technology)

Latest Developments in India the Field of Semiconductors:

Prime Minister Narendra Modi on 13 March, 2024 (Wednesday) virtually laid the foundation stone of three semiconductor projects worth about Rs 1.25 trillion, including the Rs 91,000 crore facility in Dholera, which will commence chip production by 2026. Two of the three facilities are located in Gujarat, whereas one is based in Assam. The three projects are the Semiconductor fabrication facility at the Dholera Special Investment Region (DSIR) Placement opportunities for VLSI Design Engineers and Pay Packages

- $\Rightarrow \qquad \mbox{Major Companies that work in the Field of} \\ \mbox{VLSI Design at India} \\$
 - Intel Corporation
 - Qualcomm
 - Xilinx
 - Nvidia Graphics Private Limited
 - AMD
- ⇒ Major Companies that work in the Field of VLSI Design Around the world
 - Samsung Electronics
 - Nvidia Corporation
 - Taiwan Semiconductor Manufacturing company Limited (TSM)
 - Intel Corporation (INTC)
 - Broadcom Inc
 - Qualcomm Inc (Qcom)
 - SK Hynix Inc

- \Rightarrow Types of VLSI Jobs in India
 - Design Engineer
 - Verification Engineer
 - Physical Design Engineer
 - Process Integration Engineer
 - Test Engineer
 - Product Validation Engineer
 - Technical Manager
- \Rightarrow Current Pay Packages of VLSI jobs in India
 - 10 Lakhs/ Annum for a Fresher from an Engineering College
 - 15 20 Lakhs/ Annum for Fresher from NITs/IITs
 - 25 Lakhs/Annum for 5 years experienced Engineer
 - 45 50 Lakhs/Annum for 10-15 Years Experienced Engineer