



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

45 years

NEW PROGRAM OFFERED

COURSE CODE:EV1

AICTE APPROVED INTAKE

## B.E ELECTRONICS ENGINEERING VLSI DESIGN AND TECHNOLOGY

60



**Micron to set up \$2.75 billion semiconductor unit in Sanand**  
To create 5,000 new direct and 15,000 community jobs in few years

**Sanand, Gujarat** American semiconductor giant Micron will set up its semiconductor manufacturing unit in Sanand, Gujarat, worth an investment of \$2.75 billion, according to a report published on Monday.

The total cost of the plant, comprising R&D facilities, is estimated to be \$2.75 billion, according to the report. The plant is expected to be completed in 2023.

Micron's plant has been approved by the Gujarat government. The plant will create 5,000 direct jobs and 15,000 indirect jobs in the region.

The plant will be a state-of-the-art facility, equipped with the latest technology. It will be a major boost to the semiconductor industry in India.

Micron is a leading global semiconductor manufacturer. The company has been expanding its operations in India in recent years.

The plant will be a significant investment in the Indian semiconductor industry. It will help to reduce India's dependence on foreign semiconductor chips.

The plant will also create a large number of jobs in the region. This will help to boost the local economy and create a skilled workforce.

The plant is expected to be completed in 2023. It will start production in 2024.

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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 Manufacturing Ecosystem in India was notified on 21<sup>st</sup> December 2021, with a total outlay of ₹76,000 Crores by Prime minister. A demand in semiconductor industry in India is for casted.

### 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 development of logic to silicon process.



### AVAILABLE SOFTWARES



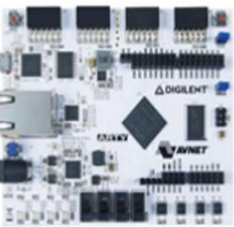
## AVAILABLE HARDWARES



Pynq Z2 Board



Boolean Board



Arty A7-100T



kria KV

## 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

## PROSPECTS OF THE UNDERGRADUATE COURSE

### LATEST DEVELOPMENTS IN THE FIELD OF SEMICONDUCTORS IN INDIA

Prime Minister Narendra Modi on 13 March, 2024 (Wednesday) virtually laid the foundation stone of three semiconductor projects worth about **₹1.25 trillion**, including the **₹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 AND PAY PACKAGES

### MAJOR COMPANIES THAT WORK IN THE FIELD OF 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
- ASML Holding(ASML)

### TYPES OF VLSI JOBS IN INDIA

- Design Engineer
- Verification Engineer
- Physical Design Engineer
- Process Integration Engineer
- Test Engineer
- Product Validation Engineer
- Technical Manager