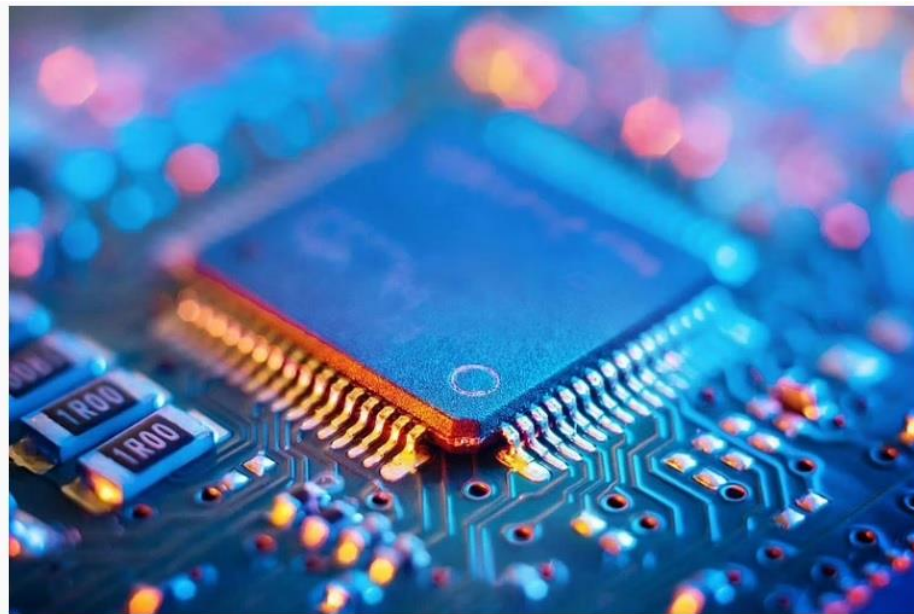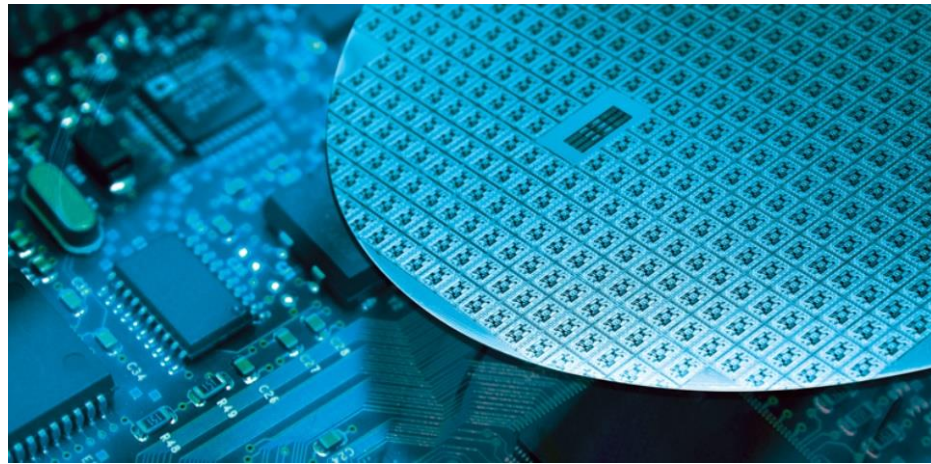# B. Tech course in

VLSI Design & Technology

(2022-2026)

Dr. Babasaheb Ambedkar Technological University,

Vidyavihar, Lonere 402103

Maharashtra, India

www.dbatu.ac.in

Introduction

Today, in the field of chip design and manufacturing, American companies such as Intel and AMD are having monopoly. Last year various industries had seen shortage of chip supply. So, there is huge scope in the semiconductor industry.

Government of India wants India to be next hub for electronics. Hence, Government has launched 76,000 Cr incentive scheme for semiconductor companies. Under this scheme India will set up 20 semiconductor design, components manufacturing and display fabrication units. This scheme is going create more than 35000 high quality jobs and more than 1.7 lakh indirect jobs. Taking all this into consideration AICTE has launched Bachelor's in VLSI Design & technology. The aim of this course is to provide quality man power in the field of IC manufacturing and Very Large-Scale Integration (VLSI) technology. After completion of this course, student will be able to understand semiconductor ecosystem, which includes design, fabrication, testing and packaging. Students pursuing this course may get employed in IC design companies, Artificial Intelligence (AI) and smartphone companies.

Course Highlights

- Student can opt for front end or back-end design.
- Tools used by the industries will be used in the labs.
- Latest FPGA boards will be made available to student.
- Advance Verilog and VHDL will be taught for front end design.
- Student will receive support for back-end design from industry.
- Student can do internship in the final semester
- Student can work on industry sponsored project during the course.

Course Duration and structure

The course will be of four years. The course will be taught in semester pattern with experienced faculties from DBATU as well as a few faculties from the industries. After successfully completing the course student will get degree as B. Tech in VLSI Design & Technology from DBATU Lonere.

Target Participants

All students who have passed 12th Standard with Science stream and also cleared MH-CET entrance exam are eligible to apply for this course. Students with vocational subject as Electronics will be immensely benefitted from this course.

Number of seats

Total thirty seats are available in the first year of the course. The total number of seats will be increased in the coming years. The seats will be allotted on merit basis. The reservation for the seats will be as per the rules of Government of Maharashtra.

About DBATU Lonere

The University was established on 5th May, 1989 by Government of Maharashtra under Dr. Babasaheb Ambedkar Technological University Act, 1989.

On 1st March 2016, the state Government declared the university as state technological university. The various institutes from Engineering, Pharmacy, Architecture, Hotel Management will get affiliation from the University.

Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere being a state technical university is committed to deliver quality education. Hence, University encourages young students to enroll for this course.