NARAYANA ENGINEERING COLLEGE::NELLORE
(AUTONOMOUS)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IIIC

Report on

Webinar on "Job opportunities in VLSI/ Semiconductor Industry

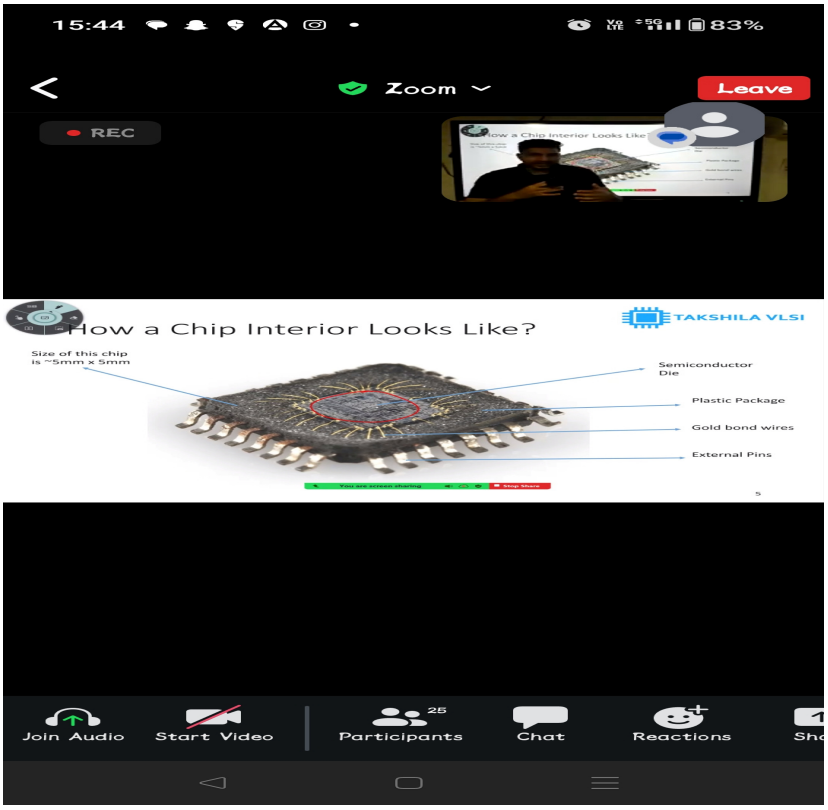
As a part of industry institute interaction, the Department of Electronics and Communication Engineering, Narayana Engineering College, Nellore organized a webinar on "Job opportunities in VLSI/ Semiconductor Industry" on 15.12.2023 for final year ECE students.

Dr. K. Murali, the HOD, Department of ECE, delivered the felicitation address and welcomed the resource person Mr. Yashwanth Kumar, Physical design engineer, Takshila Institute, Bangalore and instructed the students to get benefited.

Physical design engineer, Takshila, gave an elegant lecture on VLSI and Semiconductors. He explained in detail about the opportunities in various companies like WIPRO, BOSCH etc. annual salary packages in VLSI/ Semiconductor industry. He motivated the students by giving the methodology, the way how to enter into the VLSI industry. He also covered the following topics.

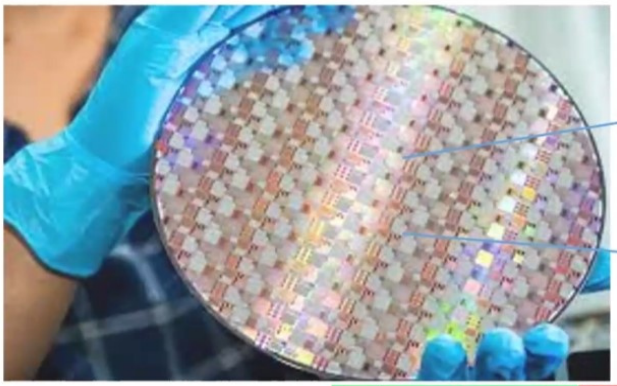
- How a chip interior looks like
- Semiconductor wafer
- How integration is made possible
- VLSI/ Semiconductor industry growth
- VLSI/ Semiconductor companies

- Top 20 product based companies
- Established VLSI service companies
- Semiconductor IC making video.



Semiconductor Wafer

TAKSHILA VLSI



12inch Wafer

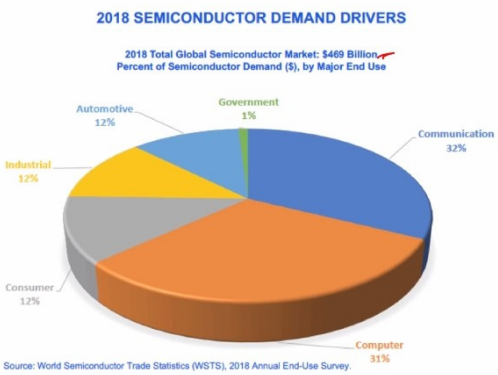
All semiconductor chip dies are made on these wafers in FABs

You are screen sharing Stop Share

6

VLSI / Semiconductor Industry Growth

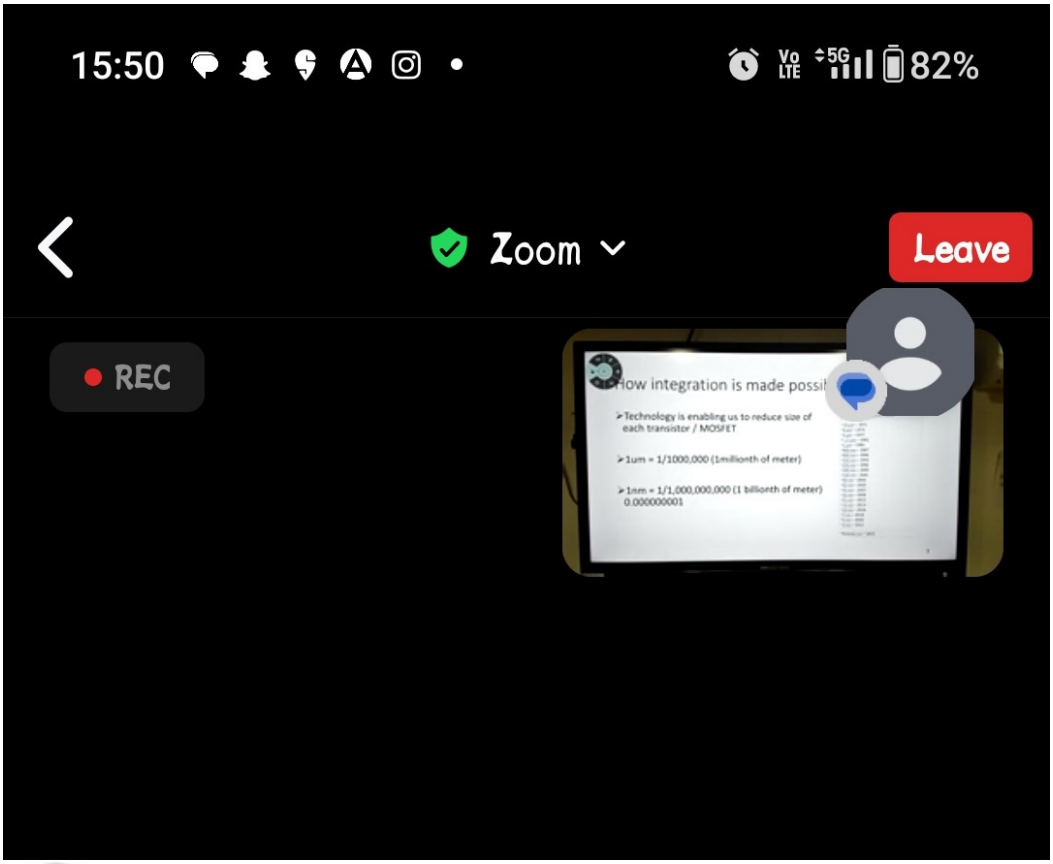
TAKSHILA VLSI



11


REC
Industry Salary Scope
TAKSHILA VLSI
• 4 to 6L Starting Packages
• 15 to 20L
• Product Company Offers
As a Fresher
With 3+ Experienced
With 10+ Experience
With 5+ Experience
• 60 to 80L
• Team Manager
• 25 to 30L
• Team Lead
You are screen sharing
Stop Share
27


Shot on OnePlus
shreyi | 2023.12.15 15:39



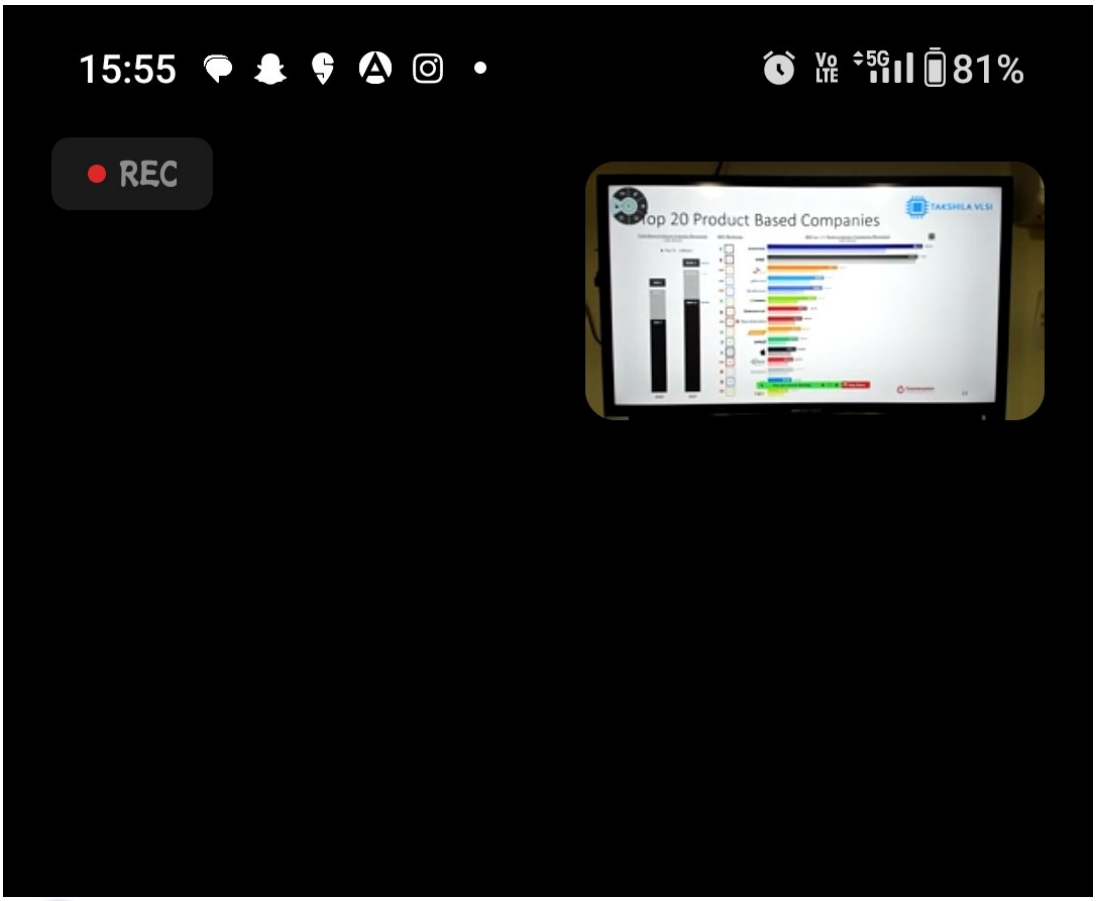
How integration is made possible?

TAKSHILA VLSI

- Technology is enabling us to reduce size of each transistor / MOSFET
- 1um = 1/1000,000 (1millionth of meter)
- 1nm = 1/1,000,000,000 (1 billionth of meter) 0.000000001

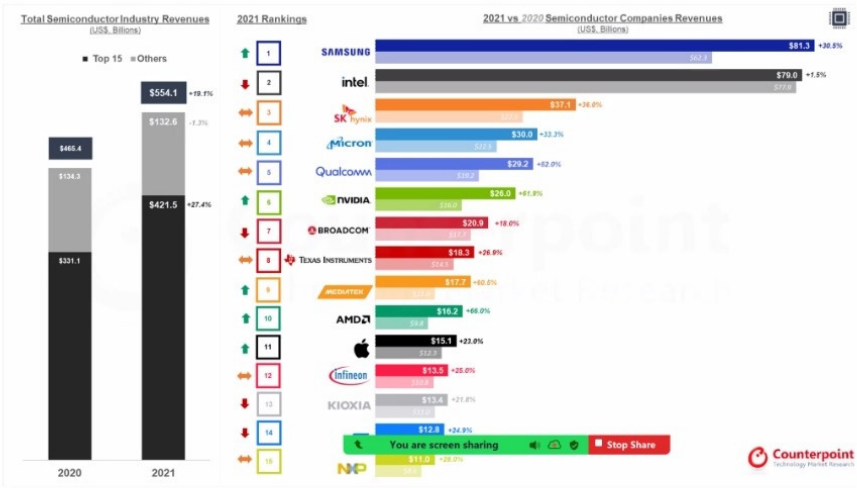
MOSFET scaling (process nodes)

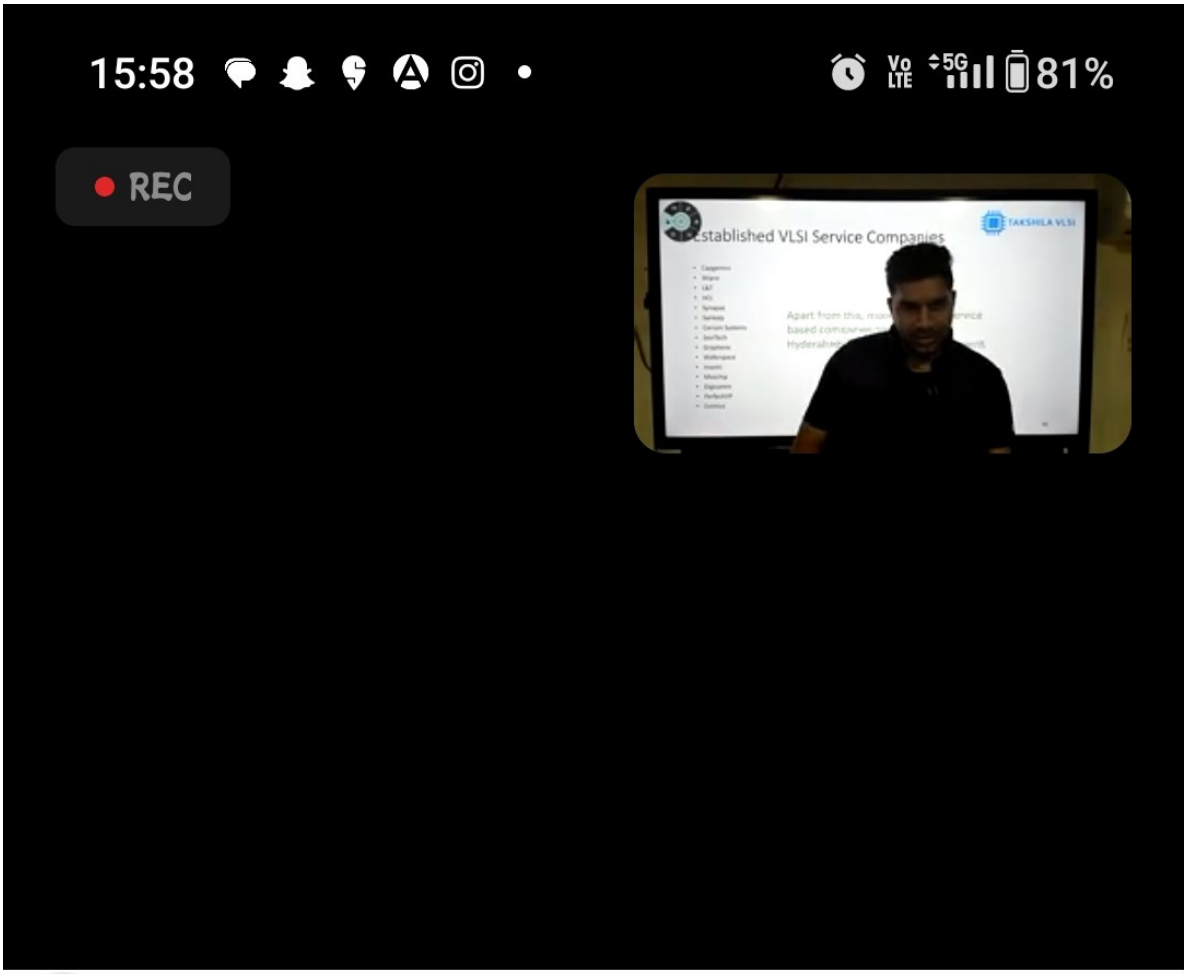
- 10 µm – 1971
- 6 µm – 1974
- 3 µm – 1977
- 1.5 µm – 1981
- 1 µm – 1984
- 800 nm – 1987
- 600 nm – 1990
- 350 nm – 1993
- 250 nm – 1996
- 180 nm – 1999
- 130 nm – 2001
- 90 nm – 2003
- 65 nm – 2005
- 45 nm – 2007
- 32 nm – 2009
- 22 nm – 2012
- 14 nm – 2014
- 10 nm – 2016
- 7 nm – 2018
- 5 nm – 2020
- 3 nm – 2022
- Future 2 nm ~ 2024



Top 20 Product Based Companies

TAKSHILA VLSI



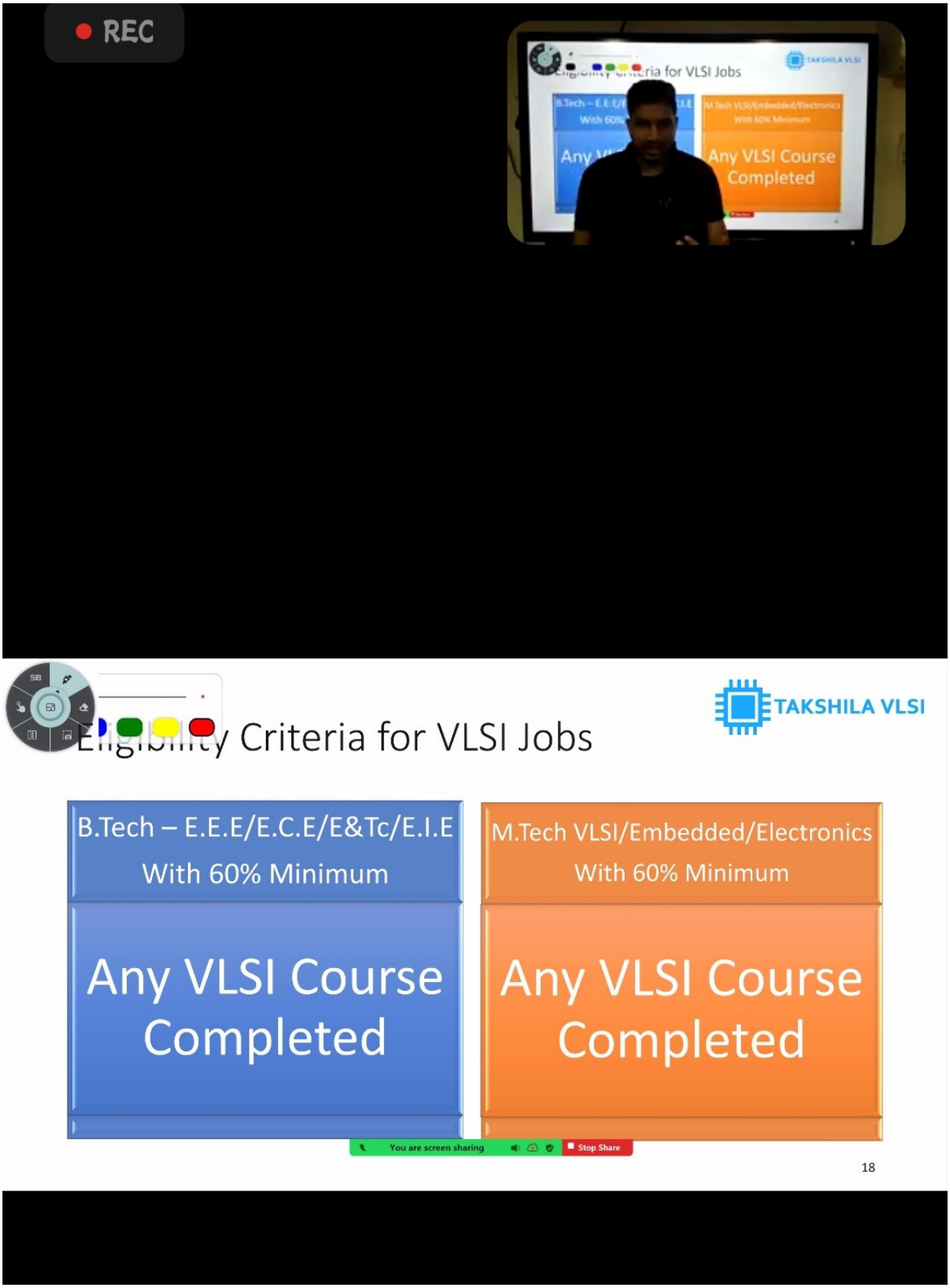


Established VLSI Service Companies

TAKSHILA VLSI

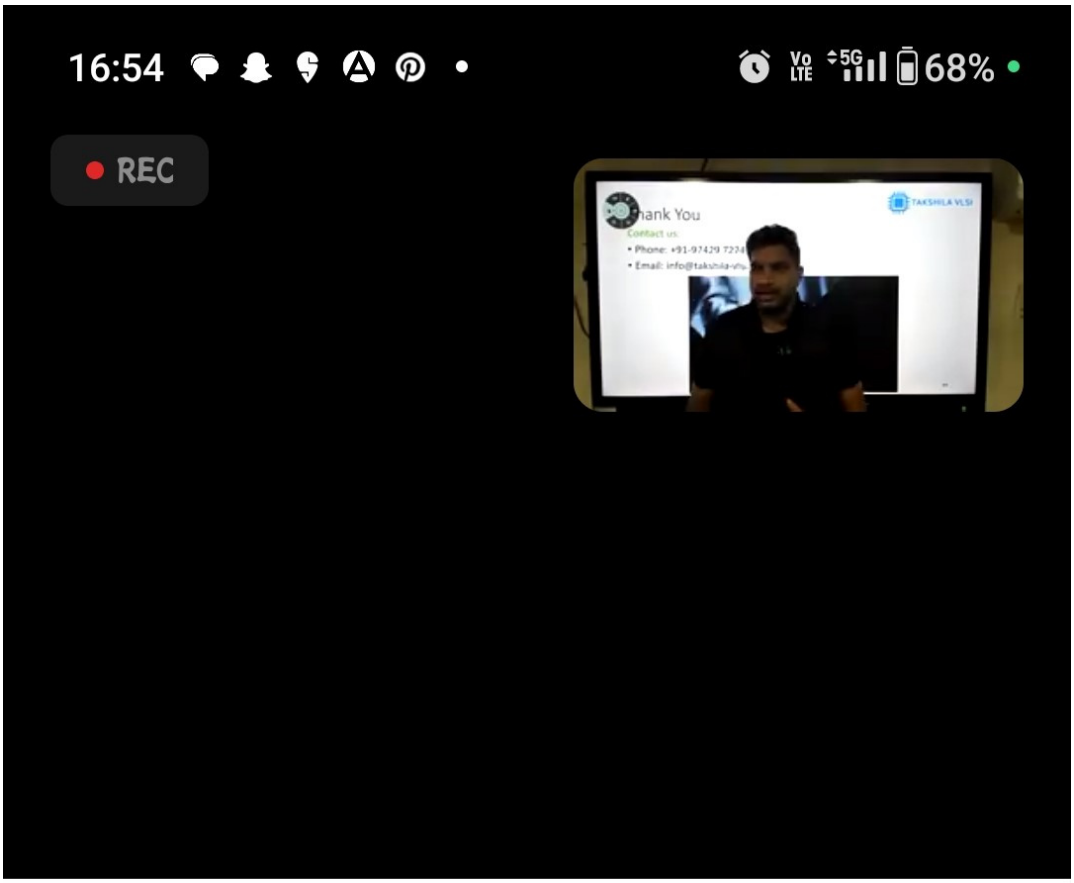
- Capgemini
- Wipro
- L&T
- HCL
- Synapse
- Sankalp
- Cerium Systems
- SeviTech
- Graphene
- Waferspace
- Insemi
- Moschip
- Digicomm
- PerfectVIP
- Eximius

Apart from this, more than 500+ service based companies are present in Hyderabad & Bangalore for employment



Around 190 students participated and involved in this session. The students have effectively enhanced the relevant knowledge. The queries posted by the students were amicably answered by the resource person.

They received huge appreciation and good feedback for their interactive and interesting session. Dr. K. Murali, HOD, ECE, IIIC coordinator Dr. E. Vijaya Lakshmi and Dr. K. S. Sagar Reddy, Mr. A. Siva sai kumar gave vote of thanks and the program came to an end by 5:00 pm.


16:54
68%
REC
Thank You
Contact us:
TAKSHILA VLSI


Thank You
TAKSHILA VLSI
Contact us:
• Phone: +91-97429 72744
• Email: info@takshila-vlsi.com
64