

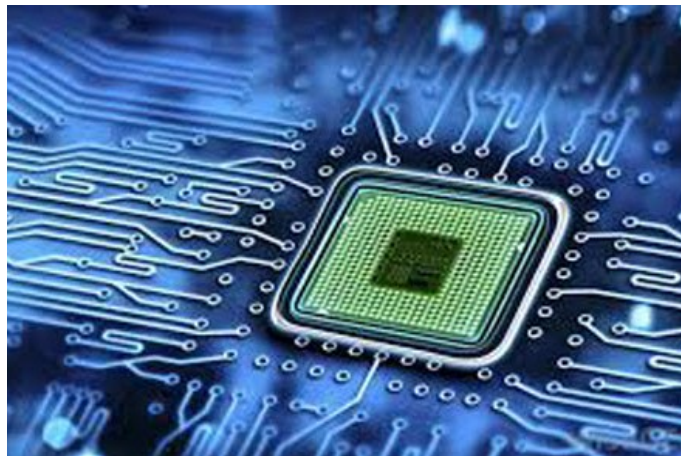
Contents

- Basic of single stage amplifiers and its biasing
- Multistage and differential amplifier design
- Frequency response of amplifiers
- Feedback in amplifiers
- Bandgap references
- PLL
- **Hands-on**
 - Introduction to commercial EDA tools
 - Design and simulation of a 2 stage operational transconductance amplifier
 - Layout design techniques
 - Parasitic extraction
 - Post layout simulation



Objective

The objective of this workshop is typically to impart practical knowledge and skills related to designing, analyzing, and troubleshooting analog electronic circuits. Participants would be able to learn fundamental concepts, circuit topologies and techniques to design circuit from Schematic to GDS-II .



IIT Guwahati
in association with
Ministry of Electronics and Information
Technology



Workshop on “Insights to the Art of Analog Design”

12th – 16th Feb 2024
Conference Hall 3,
Indian Institute of Technology Guwahati

Website:

[https://www.iitg.ac.in/proj/ninelabs/
analogworkshop/index.html](https://www.iitg.ac.in/proj/ninelabs/analogworkshop/index.html)

Contact:

For queries related to accommodation:

Mr. Ravi Dubey

Contact No.: 9893112942/8651976428

For queries related to registration:

Email: [piaipqcmeity@iitg.ac.in/](mailto:piaipqcmeity@iitg.ac.in)
ninelabsIIT@gmail.com

Landline No.:0361-258-3182

Time to contact : 9.00 AM to 6.00 PM

Tentative Speakers

Keynote Speaker

Ms. Sunita Verma

Scientist-G, Meity

Invited Speakers

Prof. Anand Bulusu, IIT Roorkee
Dr. Vinayak Hande, Infineon Tech.,
Austria
Mr. Nishit Gupta, Scientist-E, MeitY
Dr. Sharayu Jagtap, TUSK IC, Belgium

Outcomes

The workshop on Commercial EDA Design tool for Analog Design, is organized to bring together researchers, developers, and users to discuss advancements, share knowledge, and collaborate on commercial tools for chip design. After completion of this workshop, participants would be able to design analog circuits through VLSI backend flow.

Who can apply?

Students, researchers, faculty members and industry professionals working in the domain of Analog VLSI Design

Participants willing to attend the workshop in the offline mode need to register as early as possible to get on-campus hostel accommodation.

HOW TO APPLY ?

**Fees: Student/Research Scholar/Other: Rs. 500
Faculty Member/Industry professional: Rs.1000**

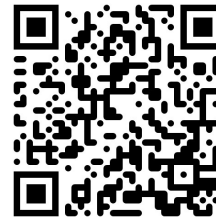
For NEFT:

Bank Name: State Bank of India
A/C Name: IIT Guwahati (R&D)
Account No.: 36071160089
IFSC Code: SBIN0014262

Reg. Link: <https://forms.gle/GNYfo2nGmr1S1E6X9>

Note: Participants have to submit UTR No. as the proof of payment while registering to the workshop.

Form QR code



DETAILS

Workshop Duration: 5 Days

Last Date: 10th Feb 2024

Workshop Mode: Hybrid (Online + Offline)

It is recommended that participants should carry their own laptop having min. 08 GB RAM and Core i3 Processor

Accommodation and food would be made available only for the offline participants.

Organizing Committee

Prof. Mahima Arrawatia (Convenor)
Prof. Harshal B. Nemade (Co-Convenor)
Prof. Gaurav Trivedi (Co-Convenor)
Prof. Aryabartta Sahu
Prof. Prithwjit Guha
Prof. S. Krishnaswamy
Prof. H. S. Shekhawat
Prof. Pratima Agarwal
Prof. John Jose
Prof. Rohit Sinha
Prof. Sukumar Nandi

Volunteers

Rupali Jarwal Amol Boke
Feroza Haque Nilutpal Changkakati
Naorem Yaipharenba Meitei Vikash Prasad
Shailesh Chandra Pandey Raktim Choudhury
Tina Susan Thomas Taniya Salotra
Avula Manoj Kumar Reddy Rushik Parmar
Divya Nakerakanti Andrew Roobert
Akshay Dandekar Sudha Kumari
Vimlesh Abhyuday Bhardwaj Akash Dev
Roshan Saras Mani Mishra Bipul Boro
Parmita Roy S.S.P. Goswami Subhadip Poria
Aditi Chakraborty Nitin M. Sachin Kumar