Analog Integrated Circuit Design

Indian Institute of Technology, Delhi
Department of Electrical Engineering
TEQIP-III Sponsored Online Short term Course
Nov 29 - Dec 3, 2020

Course Coordinator
Dr. Rakesh Kumar Palani
Assistant Professor
Electrical Engineering
IIT Delhi

Guest Lectures
1. Rajasekhar Nagulapalli
   Research Associate
   Brookes Univ, UK.
2. Srikar Bhagavatula
   Manager,
   Mixed Signal Devices Inc
   Irvine, CA USA
Introduction
- This online course (35 hours) introduces analog circuits and expands to opamp design.
- This also covers some network theory which is useful in analysing analog circuits.

Participation
- **TEQIP Category:** Only Faculty members from TEQIP-III institutions.
- **CEP Category:** All interested individuals.
- Based on first come first serve, a maximum of 50 participants will be allowed to register.

Course Content
- Introduction to small signal analysis.
- Time domain and frequency domain basics.
- Biasing of transistor.
- Single and multi stage amplifier.
- Negative feedback systems.
- Mismatch and noise analysis of circuit.
- Frequency compensation.
- Bandgap reference.

Objective
- Understanding Linear small signal analysis.
- Transistor Biasing.
- Analysis of Single Stage Amplifier.
- Understanding Compensation schemes.
- Design of 2 stage opamp.
- Familiarization with LT Spice.
Registration

1. **TEQIP category:** Interested faculty members at TEQIP-III institutions should register by depositing a refundable security deposit of Rs. 2000 on or before 27th Nov, 2020. Bank details are below. After paying the security deposit, please fill the registration form with your details along with transaction details. Registration link:  [https://forms.gle/jDAjjAA8ci4BBCJn8](https://forms.gle/jDAjjAA8ci4BBCJn8)

2. **CEP category:** Interested participants needs to submit the non-refundable registration fees of Rs. 5,000 plus GST @ 18% on or before 27th Nov, 2020. Bank details are below. After paying Rs. 5900, please fill the registration form with your details along with the transaction details. Registration link:  [https://forms.gle/i45rMI8W2et2aaq4A](https://forms.gle/i45rMI8W2et2aaq4A)

**Bank Details**

- **Name of Account Holder:** IITD CEP Account
- **Bank Name**: State Bank of India
- **Address**: Indian Institute of Technology, Hauz Khas, New Delhi -110016
- **IFS code**: SBIN0001077
- **Account Number**: 36819334799
- **Swift code**: SBININBB547
- **Type of Account**: Saving

**Contact:**
For any query related to registration and course content, please send an email to [rakesh.ee.iitd@gmail.com](mailto:rakesh.ee.iitd@gmail.com) or [teqipaic2020@gmail.com](mailto:teqipaic2020@gmail.com)