

# **Outline for Analogue Integrated Circuits & Systems**

## Chapters to cover:

1. Basic MOS Device Physics and Models
2. Single-Stage Amplifiers
3. Differential Amplifiers
4. Current Mirrors
5. Frequency Response of Amplifiers
6. Noise in Amplifiers (Refer to text books)
7. Feedback in Amplifiers
8. Operational Amplifiers (Refer to text books)
9. Stability and Frequency Compensation (Refer to text books)

## Main references supporting the course:

- Razavi, B., "Design Of Analogy CMOS Integrated Circuit", 2nd Edition, McGraw Hill, 2017.
- Franco, S., "Design with operational amplifiers and Analogy integrated circuits", 4th Int. Edition, McGraw Hill, 2014.
- Etienne Sicard, Sonia Delmas Bendhia, "Basics of CMOS Cell Design" McGraw Hill Education, 2007. [E-Book].