Course: Analog Circuits

Course Code: noc21-ee07

Session: 2020-21

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1**:** Introduction of this course; Objective of the course
Week 2: Analysis of simple non-linear circuits (each containing one transistor) and introducing the
notion of signal amplification.
Week 3: Amplifier models (equivalent circuits)
Week 4: Frequency response of CE and CS amplifiers, High frequency models of BJT and MOSFET.
Week 5: Common Collector (CC) and Common Drain (CD) amplifiers; Common Base (CB) and Common Gate (CG) amplifier
Week 6: Multi transistor Amplifiers (operation and analysis)
Week 7: Single-ended signaling vs. differential signaling
Week 8: Current mirror- operation and analysis
Week 9: Feedback
Week 10: Oscillation in feedback system and oscillation criterion
Week 11: Oscillator: Sinusoidal-Phase-shift and LC; Comparator, Square wave generator
Week 12: Power efficiency of an amplifier

List of students enrolled

S. No	Name of Student
1	Vishnu Gupta
2	Harsh Kumar
3	Amit Kumar
4	Anshul Sisodiya
5	Archit Bajpai
6	Avadhesh Chasta
7	Siddharth Agarwal
8	Prakhar Saxena
9	Bhavya Anand
10	Brij Kishore Sharma
11	Debopam
12	Deepanshu Maheshwari
13	Garvit Tambi
14	Pulkit Gupta
15	Guru Sharan Kumawat
16	Hardik Tyagi
17	Arpit Agrawal
18	Pooja Jangid
19	Jay Shrivastava
20	Mukul Jayswal
21	Kanika Singhal
22	Kaushal
23	Gaurav Sharma
24	Kusum Sharma
25	Lalit Meena
26	Manali Sharma
27	Manoj Garg
28	Navneet Kumar
29	Prashu Jain
30	Priyanshusharma_1607
31	Rahul Suthar
32	Rashi Sharma
33	Raghvendra Singh

34	Rishi Bhargav
35	Ritik Khandelwal
36	Sangeeta Sharma
37	Shubhi Samaria
38	Smriti Sharma
39	Suraj Sharma

40	Vibhor Bansal
41	Navneet Kumar
42	Poorvaja Verma
43	Vinayak Gupta
44	Vishal Dandia
45	Yash Raj Mishra