



Analog Circuits

SWAYAM Prabha Course Code - E2

PROFESSOR'S NAME	Prof. Rajesh Zele
DEPARTMENT	Electrical Engineering
INSTITUTE	Indian Institute of Technology, Bombay
COURSE OUTLINE	Besides course outline, it should also indicate if there are any pre-requisites (i.e, prior knowledge) required .
	The Analog Circuits course is specifically designed for Electrical Engineering students in their second year. No background coursework is required. We start with an intuitive understanding of Opamp as a black box followed by various circuit configurations using OPAMPs. We will go through a fundamental understanding of the p-n junction diode, BJT, and MOSFET. The course focuses on the usage of these devices along with R, L and C components to analyse complex analog circuits. Various amplifier configurations will be explored contrasting differences and similarities between BJTs and MOSFETs. We will review the frequency response followed by the feedback basics. After a good foundation in circuits, we will study various building blocks such as current mirrors, filters and oscillators.

COURSE DETAILS

S. No	Module ID/ Lecture ID	Lecture Title/Topic
1	L1	Introduction
2	L2	Fundamental circuit building blocks
3	L3	Amplifier

4	L4	Operational Amplifier and OPAMP
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References if Any: