



Module PMRF-ISSS033/2024

Network Theory & Analog Circuit Design

Name of the PMRF student

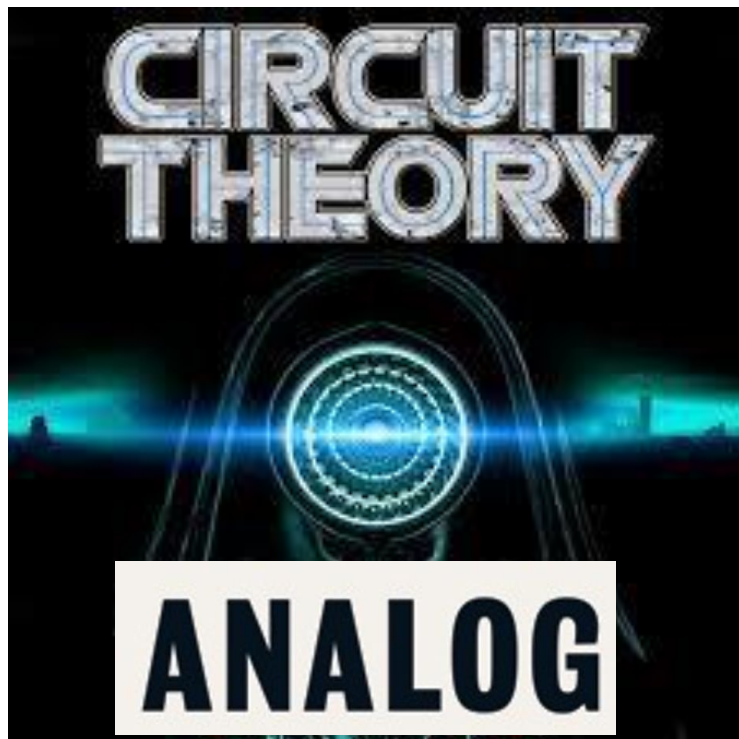
Pritam Pal

Required background of the students taught

Electrical Engineering (EE),

Electrical and Electronics Engineering (EEE)

Electronics and Communication Engineering (ECE)



Details of the content of the module

NETWORK THEORY (12 Class)

Module 1 (2 class) :

Basic Laws of Electric Circuits, Nodal and Mesh analysis, Circuit Theorems, Capacitors and Inductors.

Module 2 (5 class) :

Laplace Transform of the Circuits, First Order Circuits, Second Order Circuits, Steady-State analysis of Circuits.

Module 3 (2 class) :

AC Power analysis, Magnetically Coupled Circuits.

Module 4 (3 class) :

Frequency Response
Network.

ANALOG CIRCUIT DESIGN (12 Class)

Module 5 (1 class) :

Basics of Field Effect Transistor (FET) and DC Analysis

Module 6 (5 class) :

FET Amplifiers : Common-Source, Common-Drain, Common-Gate, Cascode Amplifiers. Frequency Response of Amplifiers.

Module 7 (5 class) :

Current Mirror and Differential Amplifier, Feedback Amplifiers and Noise Analysis

Module 8 (1 class) : Summary

Schedule of the module

Start Date: February 20, 2024

End Date: May 9, 2024

Total Duration: 36 hours

Class Schedule: Every Tuesday and Thursday

Class Timings: 7 pm to 8:30 pm

Meeting link : Will be shared later

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/eN6yYuSasXo3o8vU9>