ECE/EEE F311 Communication Systems (First Semester 2023-2024)
Lab-5 (Tuesday) (26-09-2023)

Objectives

In this task, the objective is to study WB Angle Modulated Signal.

Task 1

Generate a NBFM signal for message signal $m(t) = \cos 10\pi t$ at a carrier frequency 91.3 Hz. Take carrier amplitude 10.

Task 2

Use the NBFM signal as the input to generate a WBFM signal with the frequency modulation 10 times more than the NBFM. Use a single stage multiplier and mixer for the purpose. Detail the specifications of the multiplier and mixer.