

ECE/EEE F311 Communication Systems (First Semester 2023-2024)
Lab-5 (Saturday) (23-09-2023)

Objectives

In this task, the objective is to study SSB and Angle Modulation.

Task 1

Plot time and frequency domain signals for USSB, LSSB, PM (with $k_p = 10\pi$), and FM (with $k_f = 20$) modulated signals. The carrier signal is 5 Hz with amplitude 1. The message signals are $m_1(t) = \sin(4\pi t)$ and $m_1(t) = 4\text{sinc}(4t)$. Use a single .m file with IF conditions. Time duration -5 to 5 seconds.