ECE/EEE F311 Communication Systems (First Semester 2023-2024)
Lab-1 (12-08-2023)

Objectives

In this task, the objective is to study signals in time and frequency representation.

Task 1

Main functions used: fft, fftshift, abs, hold all, hold on, figure, plot.

- Plot $x(t) = sin(20\pi t)$ and $|X(f)|$.

- Plot sinc signal $m(t) = 2B sinc(2\pi Bt)$ and $|M(f)|$, where B is the bandwidth. Take different B to see the spectrum.

Task 2

$$plot(t, m\_t) \equiv plot(m\_t)$$