

Department of Information Technology

Communication Systems Lab (IT 2271)

Assignment 4

1. Perform analog frequency modulation over a carrier signal $c(t) = \cos(\omega_c t)$ with a baseband signal of $m(t) = A\cos(\omega_m t)$ and plot all the signals like baseband, carrier and modulated signal in time and. Frequency domain.
2. Perform FM as is given in Q1. with baseband signal containing two frequency components, $m(t) = a_1\cos(\omega_1 t) + a_2\cos(\omega_2 t)$. Plot all the signals in time domain and frequency domain.