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**PRE LAB REPORT**

Course: EEE 307

Section: 01

Experiment no: 02

Experiment Name: Conventional AM Module (DSB)

Student Name: Sahadat Hossen

Student ID: 2016-1-80-044

Group No: 04

Group Member:

Date of submission:

September 22, 2019

**CODE**

clc

clf

clear all

close all

t=0:0.0000001:0.0005;

a1= 0.45;

a2=1.0;

a3=1.30;

am=44; %sid=44

ac=12\*44;

fc=44000;

fm=(1/10)\*fc;

c\_t=ac\*cos(2\*pi\*fc\*t);

m\_t=am\*cos(2\*pi\*fm\*t);

mn\_t=m\_t/abs(max(am));

u1\_t=(1+(a1\*mn\_t)).\*c\_t;

u2\_t=(1+(a2\*mn\_t)).\*c\_t;

u3\_t=(1+(a3\*mn\_t)).\*c\_t;

figure

plot(t,u1\_t,'b',t,u2\_t,'g',t,u3\_t,'r')

axis tight

title('modulated signal for a=0.45 ,1.0 & 1.30')

xlabel('time')

ylabel('amplitude')

**PLOT**

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