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**DEPARTMENT: ELECTRICAL ELECTRONICS ENGINEERING**

**COURSE TITLE: ENGINEERING MATHS ASS5**

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**SOLUTION**

commandwindow

clearvars

clc

format short g

syms t kp td tp

v = kp\*(1-exp(-((t-td)/tp)))

mdata = xlsread('1587203818odevbesdata', 'data1');

t1 = mdata(:,1);

v = mdata(:,2);

V1 = round(mdata(900,2),1)

t0 = ones(length(v),1)

t = [t0 t1]

[mcoeff, mcoeffint, mresid, mresidint, manova] = regress (v,t);

%mcoeff

%rsquaredvalue = mcoeff(1)

mcoeff

manova

kp = V1

td = -mcoeff(1)

tp = mcoeff(2)

plot(t,v(:,1));

grid on

grid minor

Beta = nlinfit(V,t,vf,beta0)

Beta0 = [t0 t1 ]

Plot(t,Beta)

