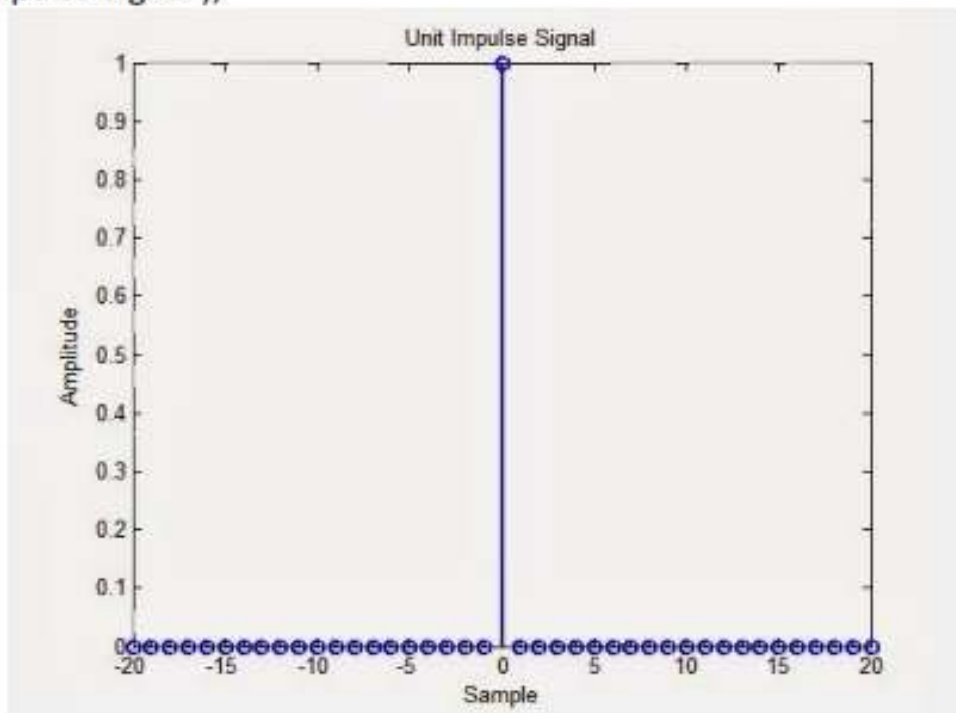


BAHAN PRAKTIKUM

Rabu, 14 Mei 2025

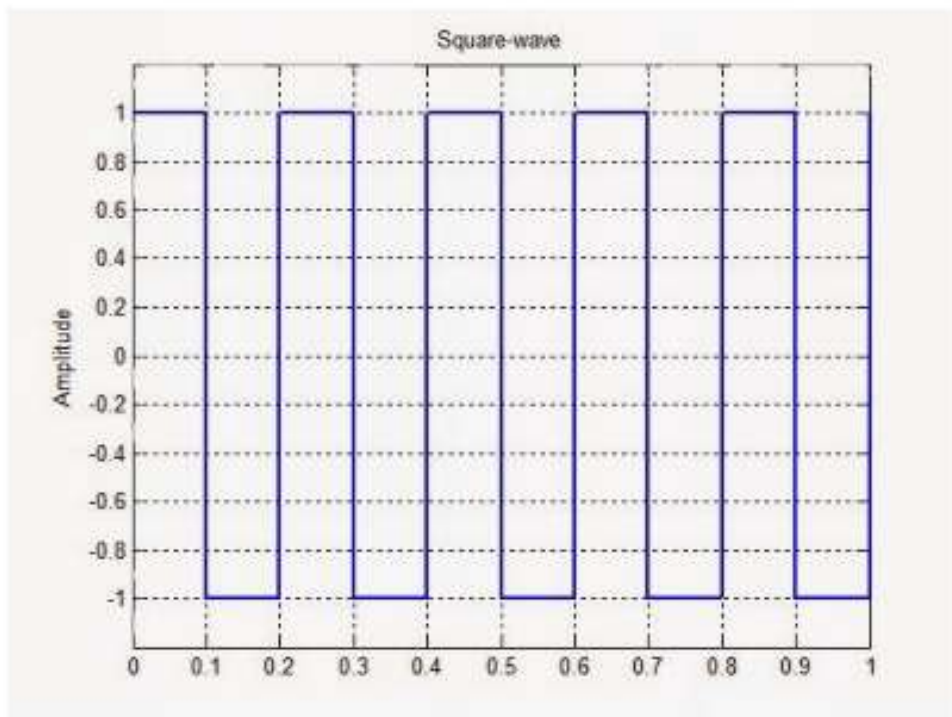
IMPULSE SIGNAL

```
clc;  
clear all;  
close all;  
n=-20:20; % specify index n  
delta=(n==0); % define the delta sequence  
stem(n,delta,'LineWidth',2) % plot the delta sequence  
xlabel('Sample');  
ylabel('Amplitude');  
title('Unit Impulse Signal');
```



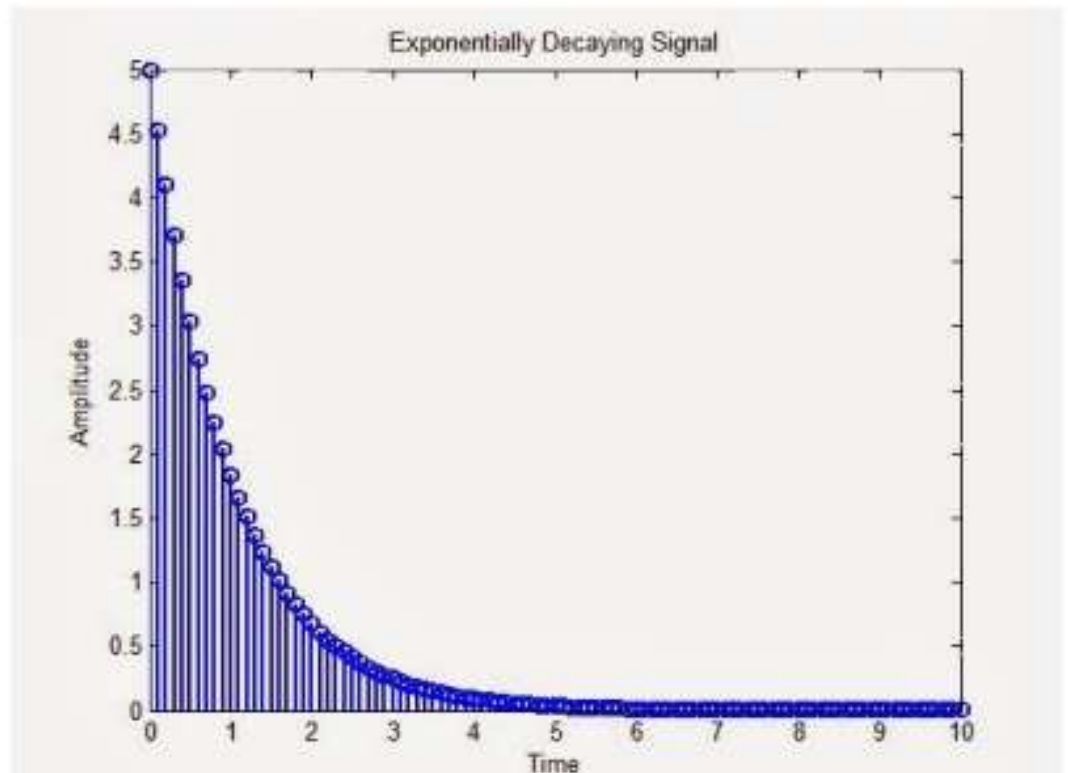
SQUARE WAVE

```
t=(0:0.001:1) % time base  
x=square(2*pi*5*t); % squarewave generator  
plot(t,x,'LineWidth',2);grid % plot squarewave  
axis([0 1 -1.2 1.2]); % scale axes  
title('Square-wave') % add title  
ylabel('Amplitude'); % label
```



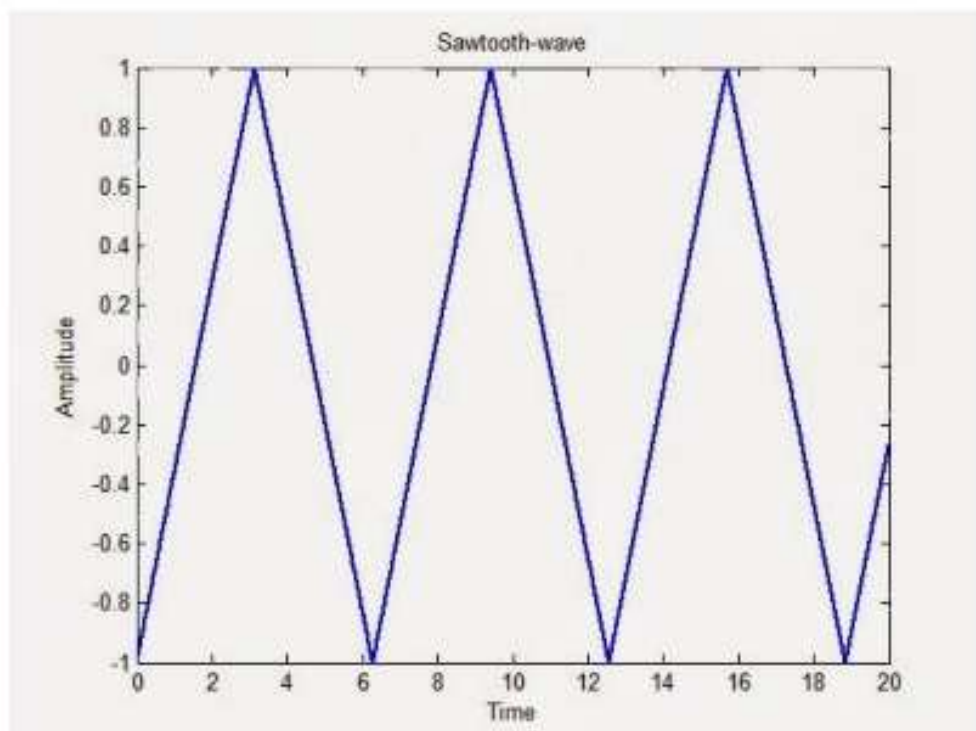
EXPONENTIALLY DECAYING SIGNAL

```
N=10; %Number of samples  
A=5; %Maximum Amplitude  
t=0:0.1:N;  
x=A*exp(-t);  
figure,stem(t,x,'LineWidth',2);  
xlabel('Time');  
ylabel('Amplitude');  
title('Exponentially Decaying Signal');
```



TRIANGULAR WAVE

```
clc;clear all;  
N=20; % number of samples  
x=0:0.1/N:N; % width=0.5 for Triangular signal  
tri=sawtooth(x,0.5); % width=0.5 for Triangular signal  
plot(x,tri,'LineWidth',2);% plot sawtooth wave  
title('Sawtooth-wave') % add title  
ylabel('Amplitude') % label the vertical axis  
xlabel('Time') % label the horizontal axis
```



RAMP SIGNAL

```
n=-10:10; % define index n  
ramp=n.*(n>=0); % define a ramp  
stem(n,ramp, 'filled')  
xlabel('Sample');  
ylabel('Amplitude');  
title('Ramp Signal');
```

