



06/04/2022

# Data Communication LAB

Exp: 7

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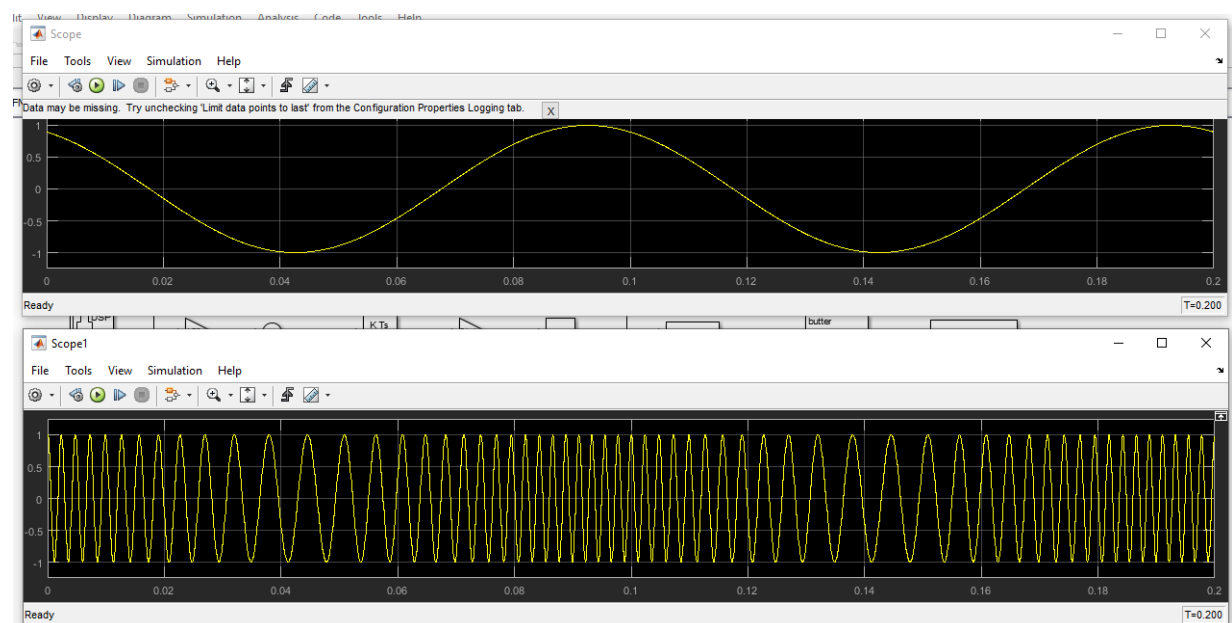
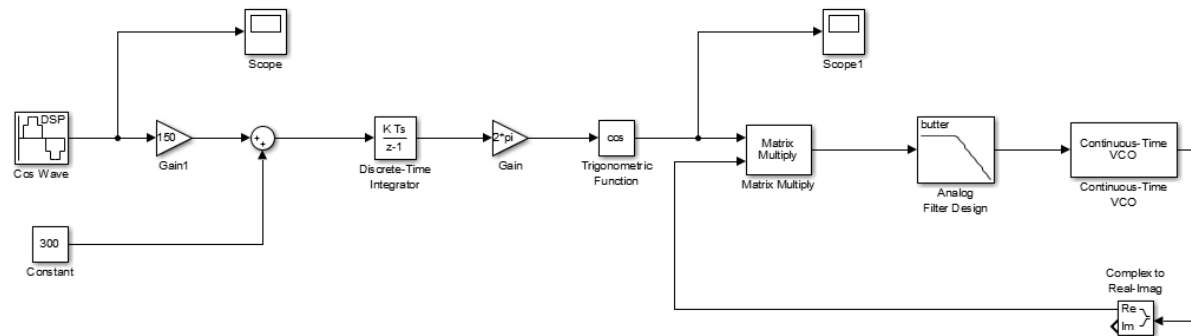
Dept: CoE

Faculty of Engineering

## Title:

Study of Frequency Modulation and Demodulation using Simulink.

## Simulink Model:



## Parameters:

Block Parameters: Cos Wave  
and phase offset parameters.

Main Data Types

Amplitude: 1

Frequency (Hz): 10

Phase offset (rad): 90

Sample mode: Discrete

Output complexity: Real

Computation method: Trigonometric fcn

Sample time: 1/98000

Samples per frame: 1

Resetting states when re-enabled: Restart at time zero

OK Cancel Help Apply

Block Parameters: Discrete-Time Integrator

DiscreteIntegrator  
Discrete-time integration or accumulation of the input signal.

Main Signal Attributes State Attributes

Integrator method: Integration: Forward Euler

Gain value: 1

External reset: none

Initial condition source: internal

Initial condition: 0

Initial condition setting: State (most efficient)

Sample time (-1 for inherited): 1/98000

☐ Limit output

Upper saturation limit: inf

Lower saturation limit:

OK Cancel Help Apply

Block Parameters: Discrete-Time Integrator

1

External reset: none

Initial condition source: internal

Initial condition: 0

Initial condition setting: State (most efficient)

Sample time (-1 for inherited): 1/98000

☐ Limit output

Upper saturation limit: inf

Lower saturation limit: -inf

☐ Show saturation port

☐ Show state port

☐ Ignore limit and reset when linearizing

OK Cancel Help Apply

Block Parameters: Trigonometric Function

Trigonometric Function

Trigonometric and hyperbolic functions. When the function has more than one argument, the first argument corresponds to the top (or left) input port. For sin, cos, sincos, cos +j sin, atan2 functions, CORDIC approximation can also be used to compute the output.

Parameters

Function: cos

Approximation method: None

Output signal type: auto

OK Cancel Help Apply