



### **Document History**

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1	17/03/2021	ShivaKumar Naga Vankadhara			



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#### **ACTIVITY 1- ONRAMP CERTIFICATES:**

#### MATLAB ON RAMP CERTIFICATE:



## **Course Completion Certificate**

NAGA SHIVA KUMAR VANKADHARA

has successfully completed 100% of the self-paced training course

MATLAB Onramp

DIRECTOR, TRAINING SERVICES

15 March 2021



#### SIMULINK ONRAMP CERTIFICATE:



## **Course Completion Certificate**

NAGA SHIVA KUMAR VANKADHARA

has successfully completed 100% of the self-paced training course

Simulink Onramp

DIRECTOR, TRAINING SERVICES

11 March 2021



#### STATEFLOW ONRAMP CERTIFICATE:



## **Course Completion Certificate**

NAGA SHIVA KUMAR VANKADHARA

has successfully completed 100% of the self-paced training course

Stateflow Onramp

DIRECTOR, TRAINING SERVICES

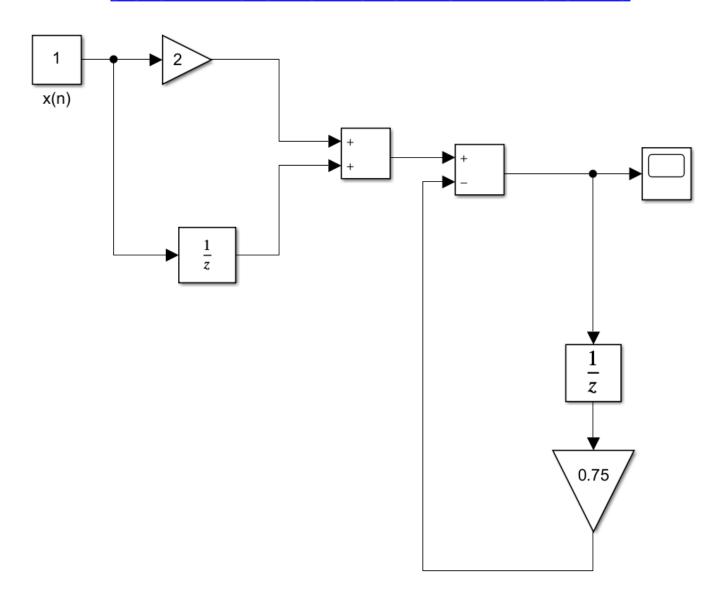
15 March 2021

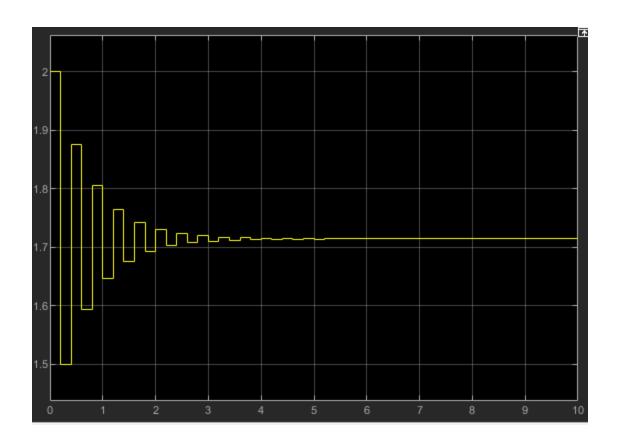


### **ACTIVITY 2- DIFFERENCE EQUATIONS:**

Difference equation:

# y(n)= 2x(n)+ (1/2)x(n-1) -0.75y(n-1)







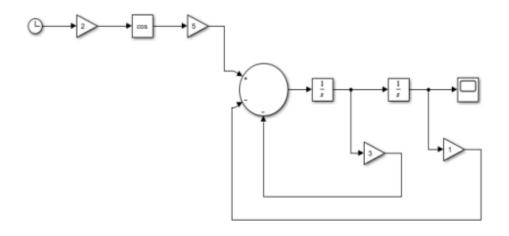
### **ACTIVITY 2- DIFFERENCE EQUATIONS:**

Differential equation:

$$\frac{d^2x}{dt^2} = 5\cos(2t) - 3\frac{dx}{dt} - 4x$$

#### Simulink Model:





Use: This equation with different variable inputs used in modelling and finding different parameters of Electrical equipment.



### Simulink Scope Output:

