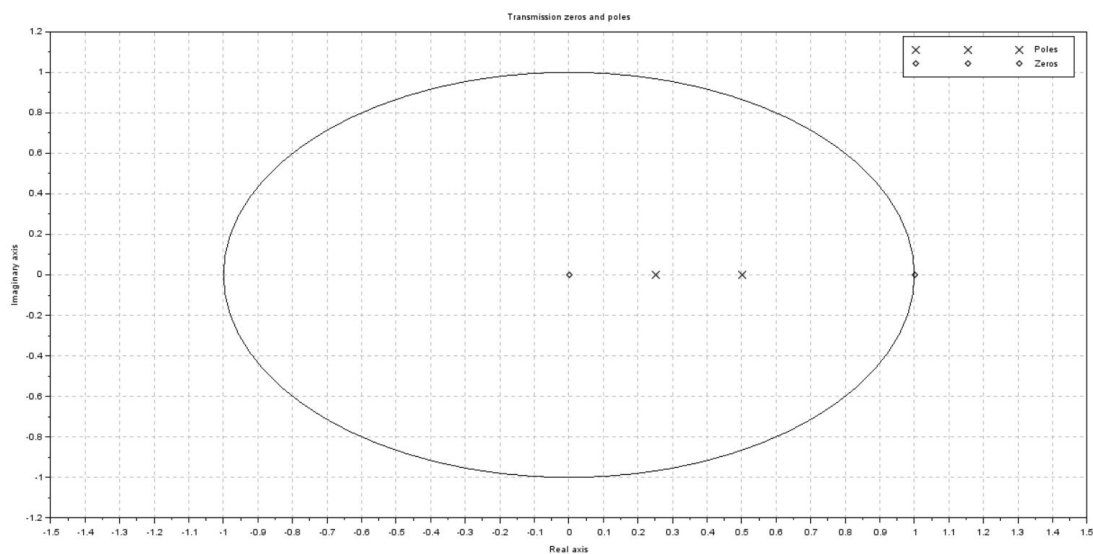


Mukesh Patel School of Technology Management & EngineeringDepartment of Mechatronics Engineering**Signal Processing Lab**

Subject- Digital Signal Processing

EXPERIMENT NO. 9**Aim:** Write a program to plot pole zero of difference equation.**Software Used:** Scilab software.**Code:***// WAP to plot pole zero diagram from difference equation*

```
clc;  
close;  
clear all;  
  
z = %z  
H1Z = ((z)*(z-1)) / ((z - 0.25)*(z - 0.5));  
xset ('window', 1);  
plzr (H1Z);
```

Output:

Conclusion:

In this experiment we plotted the pole zero plot of a given difference equation using 'plzr' function in Scilab. Pole-Zero Plots play a vital role in determining the stability of a system.