## List of useful MATLAB commands for data visualization.

Codes useful for vector generation. # Generate continuous array of numbers with interval of 1 between a and b. a:b # Generate continuous array of numbers with interval of i between a and b. a:i:b # Generate a matrix of order 3 X 3 [a b c; d e f; g h i] # Random number generation between 0 - 1 of order m x n. rand(m,n) # Random integer values between a and b of order m x n randi([a b],m,n) # Generating m equal intervals between a and b. linplot(a,b,m) # Indexing of any matrix. In this example matrix is of order m x n. Example; mat = rand(m,n)2<sup>nd</sup> column elements will be- mat(:, 2) 3<sup>rd</sup> row elements will be- mat(3, :)

The 2<sup>nd</sup> row and 3<sup>rd</sup> column element will be- mat(2,3)

#

## Codes useful for plotting

```
# Line plot:
       Plot(X_elements, Y_elements, '-or')
       In place of o you can use other markers such as +, x, * etc.
# Scatter plot
       Scatter(X_elements, Y_elements, 'filled')
# Bar plot
       Bar(X_elements, Y_elements)
# Distribution plot
       Histogram(data, bins)
# Heatmap
       Heatmap(matrix,'colormap',automn)
       Codes useful for editing existing plots
# For axis label
       xlabel('X Axis title (unit)','FontSize',14)
       ylabel('Y Axis title (unit)','FontSize',14)
# For legends
       legend('legend1', 'legend2')
```