

# **MATLAB graphics and Graphical user interface**

**Duration : 2 weeks [5 days a week, 2 hours a day, total 20 hours]**

1. **Plotting:** Use of Plot command, Save/Open / Copy & Print a graph, Formatting, Multiple plots, Adding legend to a plot, (2D plots)
2. **Line Plots**  
Linear, log-log, semi-log, error bar plots
3. **Pie Charts, Bar Plots, and Histograms**  
Proportion and distribution of data
4. **Discrete Data Plots**  
Stem, stair, scatter plots
5. **Polar Plots**  
Plots in polar coordinates
6. **Contour Plots**  
2-D and 3-D isolate plots
7. **Vector Fields**  
Comet, compass, feather, quiver and stream plots
8. **Surfaces, Volumes, and Polygons**  
Gridded surface and volume data, ungridded polygon data
9. **Animation**  
Animating plots
10. **Graphical User Interfacing:** Laying out a simple GUI, Programming GUI, and Running GUI using guide command.