

**Dept of Electronics and Communication Engineering, TKMCE Kollam**

**Scientific Computing Lab** Aug-Dec 2020

**Lab 6: Simple Data Visualization**

**Experiment:**

1. Implement and plot the function  $f(t) = \cos(t)$ ,  $f(t) = \cos(t)\cos(5t) + \cos(5t)$
2. Plot the histogram of a random data
3. Draw the stem plot of  $\sin(t)$ .
4. The number of students admitted in various departments of TKMCE is, EC: - 130, CS:- 70, ME:- 190, CIVIL :- 130, B.Arch :- 40. Obtain a bar plot of this data
5. Create 200 random values with mean 100 and standard deviation 20 and generate its box plot
6. Draw stem plots, line plots, box plots, bar plots and scatter plots with random data.

**Reports:**

**Preliminary Lab report:**

1. Write a short note on scatter plot and box plot.
2. Write the algorithm/ flowchart for the experiments listed in preceding section

**Final Lab Report:**

In addition to the Pre-lab report, document the code, comment each line and clearly report the results of each program (wherever applicable).