ES 111 – Assignment 6 CEP

Spring 2023

Submission Deadline: Friday, 19th May 2023 (3 pm)

LATE SUBMISSIONS WIL NOT BE ACCEPTED

Complex Engineering Problem (CEP) - CLO-5

Implementation of central limit theorem on a data set. Any programming language can be used to implement the following steps:

1. Import the data file named "Employee Data" (1 point)
2. Draw a **random** sample of size N=10 from salary column and apply $z = \frac{\bar{x}-\mu}{\sigma/\sqrt{N}}$. Repeat this 300 times. You can store the resultant values of z in an array. (2 points)
3. Plot (make a graph) the stored Z array (1 point)
4. Repeat steps 2 and 3 for N = 300 and compare with the plot of step 3. (1 point)