

## Outcomes for Probability & Statistics for Engineers

Students will be able to :

1. **demonstrate** number of methods of summarizing and visualizing data sets, **evaluate** probabilities of events.
2. **make use of** concepts of random variables and associated probability distributions to solve problems, **illustrate** the central limit theorem.
3. **Test for** basic statistical inference (t-test, z-test, F-test,  $\chi^2$  –test, confidence interval, non parametric tests).
4. **explain** basic principles of regression analysis and perform the same.
5. **demonstrate** use of R software for all the above.