INTRODUCTION TO PROBABILITY AND STATISTICS

PROF. G SRINIVASAN
Department of Management Studies
IIT Madras

TYPE OF COURSE : Rerun | Core | UG/PG
COURSE DURATION : 4 weeks (18 Jan’ 21 - 12 Feb’ 21)
EXAM DATE : 21 Mar 2020

PRE-REQUISITES : NONE
INTENDED AUDIENCE : Students, young managers/executives
INDUSTRIES APPLICABLE TO : Most industries should recognize

COURSE OUTLINE :
This course is aimed at being a pre term or a preparatory course for probability and statistics. It is very basic and introduces the students to the understanding of data and measuring associations. It also introduces the concepts of probability and distributions.

ABOUT INSTRUCTOR :
Prof. G Srinivasan teaches in the Department of Management Studies at IIT Madras. He has more than 25 years of teaching and research experience. His areas of Interest include Operations Research, Supply Chain Management, O.R. Applications.

COURSE PLAN :
- Week 1: Different types of data, Tables, charts, histograms, frequency distributions
- Week 2: Measures of association
- Week 3: Probability concepts, conditional probability, Bayes theorem
- Week 4: Probability distributions – random variable, expected value and variance, Discrete distributions – Binomial, Poisson Continuous distributions – Uniform, Normal