



MANAGEMENT



PROF. MUKESH KUMAR BARUA

Department of Management
IIT Roorkee

TYPE OF COURSE : New | Core| UG/PG
INTENDED AUDIENCE : B.Tech. M.Tech, PhD and
working professionals

COURSE DURATION : 12 weeks (28 Jan'19 - 19 Apr'19)
EXAM DATE : 27 Apr 2019

COURSE OUTLINE :

This course will introduce you to business statistics, or the application of statistics in the workplace. Statistics is a course in the methods for gathering, analyzing, and interpreting data. You'll also explore basic probability concepts, including measuring and modeling uncertainty, and you'll use various data distributions, along with the Linear Regression Model, to analyze and inform business decisions.

ABOUT INSTRUCTOR :

Dr. M.K. Barua is an Associate Professor at Department of Management Studies, Indian Institute of Technology Roorkee. He is also seconded faculty at Asian Institute of Technology (AIT) Bangkok and Defense Engineering College, FDRE's Metals and Engineering Corporation, Ethiopia. Also he is visiting faculty at IIM Sirmaur and IIM Rohtak. His research interest includes Operations management, project management and supply chain management. He has published more than 100 research papers in international journals of repute.

COURSE PLAN :

Week 01 : Introduction, data collection and presenting data in tables

Week 02 : Numerical descriptive measures and basic probability

Week 03 : Discrete and continuous probability distributions

Week 04 : Sampling and sampling distributions

Week 05 : Confidence interval estimation

Week 06 : One sample tests and hypothesis testing

Week 07 : Two sample tests means

Week 08 : Two sample tests proportions and variance

Week 09 : ANOVA

Week 10 : Chi-Square tests

Week 11 : Simple linear regression

Week 12 : Multiple regression basics