

Objectives and Course Content of Short Term Course

Operational Plan No.	ICT-20
Name of the Course	Data Science using R
Objectives of Course	<ul style="list-style-type: none">• To learn the basics of R Programming.• To install R software and working using R Interface.• To use various data structures available in R for data input and storage of data.• To understand descriptive and inferential statistics fundamentals and to implement descriptive and inferential statistics methods in R.• To perform graphical analysis, predictive analysis using R.• To extract and analyse real time streaming data and sentiment analysis in R• To analyse interdisciplinary datasets in R and pre-processing of data
Course Content	<ul style="list-style-type: none">• Introduction to R and its installation• Basic commands of R using R Console and R Studio• Data structures in R• Descriptive Statistics: Measure of Central Tendency and Measure of Dispersion• Binomial, Poisson and Normal Distribution, Chi-square Test, ANOVA and CoVariance• Graphical analysis using R• Analyzing real streaming data in R and sentiment analysis• Machine Learning and Predictive Analytics using R
Name of Course Coordinator with E-mail ID & Contact Number	<ul style="list-style-type: none">• Shano Solanki s_solanki_2000@yahoo.com, 0172-2759696• Pardeep Bansal, Par04_bansal@yahoo.com, 0172-2759730