

### Objectives and Course Content of Short Term Course

Operational Plan No.	CSE-18
Name of the Course	Data Science using R
Objectives of Course	<ul style="list-style-type: none"><li>• To learn the basics of R Programming.</li><li>• To install R software and working using R Interface.</li><li>• To use various data structures available in R for data input and storage of data.</li><li>• To understand descriptive and inferential statistics fundamentals and to implement descriptive and inferential statistics methods in R.</li><li>• To perform graphical analysis, predictive analysis using R.</li><li>• To extract and analyse real time streaming data and sentiment analysis in R</li><li>• To analyse interdisciplinary datasets in R and pre-processing of data</li></ul>
Course Content	<ul style="list-style-type: none"><li>• Introduction to R and its installation</li><li>• Basic commands of R using R Console and R Studio</li><li>• Data structures in R</li><li>• Descriptive Statistics: Measure of Central Tendency and Measure of Dispersion</li><li>• Binomial, Poisson and Normal Distribution, Chi-square Test, ANOVA and CoVariance</li><li>• Graphical analysis using R</li><li>• Analyzing real streaming data in R and sentiment analysis</li><li>• Machine Learning and Predictive Analytics using R</li></ul>
Name of Course Coordinator with E-mail ID & Contact Number	<ul style="list-style-type: none"><li>• Shano Solanki s_solanki_2000@yahoo.com, 0172-2759696</li><li>• Pardeep Bansal, Par04_bansal@yahoo.com, 0172-2759730</li></ul>