

Course Name	Fundamental Course in Predictive Analytics
Course Duration	50 Hours
About Technology	IBM® SPSS® Statistics is statistical analysis software that delivers the core capabilities one needs to take the analytical process from start to finish. It is easy to use and includes a broad range of procedures and techniques to help you increase revenue, outperform competitors, conduct research and make better decisions.
	SPSS Statistics provides essential statistical analysis tools for every step of the analytical process.
	<ul> <li>A comprehensive range of statistical procedures for conducting accurate analysis.</li> <li>Built-in techniques to prepare data for analysis quickly and easily.</li> <li>Sophisticated reporting functionality for highly effective chart creation.</li> <li>Powerful visualization capabilities that clearly show the significance of your findings.</li> </ul>
About Course	A course on Predictive Analytics using IBM SPSS Statistics will help the students to understand the basic concepts of Statistical Methods .This course will help to focus on Business Prediction in the era of high performance and low tolerance business environment.
Target Audience	The course enables students in early stages of undergraduate studies with an understanding of how to use the predictive analytics and its application. Students of: – MBA / BBA Students
Pre-requisites	No previous Software knowledge, other than basic computer/Windows usage required. Understanding of Statistical Computation & Concepts ( Sampling , Probability , Testing , Hypothesis etc)
Contents	Introducing IBM SPSS Statistics Reading Data Variable Properties Working with the Data editor Summarizing Individual Variables Modifying Data Values: Recode Modifying Data Values: Compute Describing Relationship Between Variables Selecting Cases Creating and Editing Charts Output in the Viewer Syntax Basics Course Summary Menus and the Help System



Helpful Data Management Features Transformations: Computing with Numeric Data Transformations: Computing with Date and Time Variables Transformations: Computing with Alphanumeric Data Additional Data Transformations Identifying Duplicates and Restructuring Data Aggregating Data Merging Files – Adding Cases Adding Variables Analyzing Multiple Response Questions Working with Pivot Tables Working with Charts Exporting Tables and Charts An Introduction to Output Management System Automating IBM SPSS Statistics Controlling the IBM SPSS Statistics Environment

## Introduction to Statistical Analysis

Understanding Data Distribution Theory Data Distribution for Categorical Variables Data Distribution for Scale Variables Making Inference about population from sample Relationship between Categorical variables The Independent Sample T test The Paired Sample T Test One Way ANNOVA Decision Tree Introduction and Procedure CHAID analysis Bivariate Plots and Correlation for Scale Variables Regression Analysis Concepts of Logistic Regression