

## Regional Training Institute, Jammu

Course Title	<b>Course on Data Analytics</b>			
IT Course No. 17	Working Days	5	From 19-03-2018 to	23-03-2018
IT Course No. 18	Working Days	5	From 26-03-2018 to	30-03-2018

### Programme

Session Timings		Tea Break	11.15 AM to 11.30 AM
1,5,9,13,17	10.00 AM to 11.15 AM		03.15 PM to 03.30 PM
2,6,10,14,18	11.30 AM to 12.45 PM	Lunch Break	01.00 PM to 01.30 PM
3,7,11,15,19	02.00 PM to 03.15 PM	Library Session	01.30 PM to 02.00 PM
4,8,12,16,20	03.30 PM to 04.45 PM		

Day	Session	Topics
Day1	1	Introduction to Data Analytics: Basic Concepts: Data, types of data: String, numeric, date; types of analytics;
	2	Descriptive Analytics: Statistical Approaches in Analytics: Central Tendencies (Mean, Median , Mode)
	3	KNIME: A Broad overview; Build a basic workflow;
	4	Data downloading sorting errors; Property tax data
Day2	5	Statistical Approaches in Analytics: Spread and Shape of Distribution: Range, Skewness, Kurtosis, Standard Deviation, Variance, Interquartile range, Box plots
	6	Exposure to and Application of multivariate Statistical concepts: Correlation; Regression Analysis
	7/8	Application of Statistical concepts in Knime using Property Tax Data; Deriving insights from Property Tax data.
Day3	9/10/ 11	Exercise/Case study using KNIME: Defence Pension Case study: Data import, Manipulating, Data type conversion (Data preparation), Treating Missing values, Statistical Analysis and deriving insights about the dataset;
	12	Text Processing and Other features in KNIME: Report Generation; Repeatability; Database connectivity; Distribution of workflows; Text Processing in KNIME;
Day4	13	Tableau: Data downloading; Database Connectivity; Manipulation; Visualisation, Calculated fields; Filters; Hierarchy, Dashboards
	14	Other features in Tableau: Story, Distribution of workbooks
	15/16	Tableau Exercise/ Case Study: Analysing data, Deriving Insights; Identifying risk areas, building dashboards.
Day5	17	
	18	Principles of Visualisation
	19	Consolidation of Concepts; Data Analytic Principles and Approaches
	20	Test