

## Special course on Data Analytics

From 12.02.2018 to 16.02.2018

<b>PROGRAMME</b>			
SESSION TIMINGS		NON-SESSION TIMINGS	NON-SESSION DAYS
I	10.15 AM to 11.30 AM	Tea Break: 11.30 AM to 11.45 AM	
II	11.45 AM to 01.00 PM	Lunch Break: 01.00 PM to 02.00 PM	
III	02.00 PM to 03.15 PM	Tea Break: 03.15 PM to 03.30 PM	
IV	03.30 PM to 04.45 PM	Library Session: 04.45 PM to 05.45 PM	
Day	Sn. No	Session Name	
12.02.2018	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	
13.02.2018	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.	
14.02.2018	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;	
15.02.2018	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.	
16.02.2018	17		
	18	Principles of Visualisation	
	19	Consolidation of Concepts; Data Analytic Principles and Approaches	
	20	Test	