Ref	Day	Date	Time	Topic	Outcome	Case Ref	Break	Cum Time
	Start	9 Apr 18	min					
				D1: Session-1				0
1A	1	9 Apr 18	20	Introduction - Facutly & Students	Understanding Student Expectation for the Course			20
								20
1B			30	Course Conduct	Course Conduct & Topic Introduction			50
							10	60
1C			50	Introductory Topics to Analytics	Understanding the need for Analytics in Financial Domain			110
							10	120
1D			50	Introduction to Data Management	Properties & Types of Data, Measurement Scale, Basic Statistics on Data			170
								170
1E			30	Basic Excel Functions	Vlookup, Pivot Table, Stastical Functions	Case : Denco		200
							10	210
				D1: Session-2				210
1F	1	9 Apr 18	30	Basics of R Programming	Need for R, Features of R, Download, Setup, Installation ; R & R Studio; Configuration			240
								240
1G			30	Project Management in R	Files & Project Management in R ; Git Hub Configuration			270
							10	280
1H			90	Data Structures in R	Creating and Understanding Basic Data Structures in R - Vector, List, Matrix, Array, Data Frame & Factors			370
							10	380
1I			60	Data Manipulation & Summarisation in R	Understanding how data can be summarised in different ways to do Descriptive Analysis	Case Study : Denco		440
								440
1J			15	HW Assignment	Assignment for Home : Practise	Case Study : student		455
1K			10	Summarisation	Summarising Day1's topics			465
				D2: Session-1				0

Ref	Day	Date	Time	Topic	Outcome	Case Ref	Break	Cum Time
	Start	9 Apr 18	min					
2A	2	10 Apr 18	35	Recap & Discussion of HW Assignment	Finding Insights and carrying out Descriptive Statistics			35
								35
2B			25	Financial Analytical Modeling	Understand what is Modeling and how it can be used in Financial Domain			60
							10	70
2C			90	Simple Linear Regression	Develop a Prediction Model for predicting a financial values based on single Independent Variable; Understand the assumptions and measures of goodness of Model	Case : AreaVsSales		160
							10	170
2D			60	Multiple Linear Regression	Develop a Prediction Model for Predicting a Financial Value/ Quantity on more than 1 independent Variables; Understand its prediction ability	Case : Qty-Price & Promotion		230
								230
				D2: Session-2				230
2E	2	10 Apr 18	50	Visualisation using Graphs	Creating Graph in R and understanding which graph to be used when			280
							10	290
2B			90	Logistic Regression	Predicting Binary Outcome (Buy or not, Churn or not, Loan Default or not) based on Independent Variables	Case : Default on Loan		380
							10	390
2D			15	HW Assignment	Discussion on Assignment Submission	Case : Qty-Price & Promotion		405
							10	415
2E			30	Missing Value and Outlier Analysis	Understanding how missing values & outliers are handled in data summarisation & modeling			420
2E			30	Summarisation and Discussion	Practise Exercise, Summarisation and Doubts clearance, Next Days Topics			445
				D3: Session-1				0
3A	3	11 Apr 18	90	Decision Tree - CART	Need for Decision Tree Modeling; How to create Classification and Regression Tree ; Interpreting the output; Pruning the tree based on Complexity Paramter ; Selecting the most important attribute	Case : SalesVsIVs		90

Ref	Day	Date	Time	Topic	Outcome	Case Ref	Break	Cum Time
	Start	9 Apr 18	min					
								90
3B			25	Decision Tree - CHAID	When to use CHAID to create decision tree based on categorical variables.	Case : Built in Dataset		115
							10	125
3C			90	Clustering	Grouping Customers based on characteristics so that they can be target for sale increase	Case : AreaVsSales		215
							10	225
								225
				D3: Session-2				225
3D	3	11 Apr 18	90	Association Rule Analysis	Understand how Association Rules can be created using Market Basket Analysis. Same concept can be applied to find association between subscription to features of financial institutions	Case: Groceries		315
							10	325
3E			90	Date Functions	Understand how Date Functions are used to understand Time Series data	Practise/ Lab Work		415
							10	425
3F			30	Summarisation and Discussion	Practise Exercise, Summarisation and Doubts clearance, Next Days Topics			455
				D4: Session-1				0
4A	4	12 Apr 18	180	Time Series Analysis	Create, Analyse, Plot Time Series Data. Carryout Moving Average, Exponential and ARIMA forecasting to predict Values	Case : Built in Data Sets		180
								180
								180
				D4: Session-2				180
4B	4	12 Apr 18	90	Twitter Analysis	Configure Twitter Account & Application; Setup for downloading tweets and analyse them for positive and negative sentiments	Case : Nil		270
							10	280
4C			60	Summarisation and Discussion	Practise Exercise, Summarisation and Doubts clearance, Next Days Topics			340
							10	350

Ref	Day	Date	Time	Topic	Outcome	Case Ref	Break	Cum Time
	Start	9 Apr 18	min					
4D			80	Exam & Group Photo , Feedback	Conduct assessment; Group Photos and Feedback Session			430