Sr. No	Lecture Title	Description	Category	Duration
		Segment 3: Introduction to Packages & Data Types in R		
1	Packages	• Introduction to Packages and their purpose in R language. • Accessing packages from Cran R-project website. • Retrieving information related to a particular package in R repository.	Packages	4:00
2	Install Packages	• Procedure to access the packages within R language. • Discuss different methods to install packages such as comman-line, or through CRAN repository.	Packages	5:25
3	Library & Initialize Packages	• Description of Libraries in R langiage. • Procedure to initialize packages. • Discuss methods to initialize packages such as command-line or through package tab.	Packages	2:27
4	Getting Help with Help Pages	• Description of getting help with help pages in R. • Describes syntax for particular function for getting help. • Describes functions with help commands for their functionality.	Packages	3:42
5	Atomic Vectors	• Introduction to atomic vectors in R language. • Example code for creating atomic vectors. • Uses of atomic vectors in R language.	Vectors & Data Types	2:42
6	Doubles	• Introduction to doubles in R language. • Describes double atomic vectors and initializing numeric values in R. • Example code to declare the atomic vectors and store multple values in it.	Vectors & Data Types	3:30
7	Integers	• Introduction to integers in R language. • Declaring integers in RStudio. • Finding datatype of an already existing integers.	Vectors & Data Types	3:23
8	Characters	• Introduction to character datatype in R language. • Describes the use of character datatype in R. • Utilization of variables and storing them into single and multiple character values.	Vectors & Data Types	4:43

9	Logicals	• Introduction to logicals in R language. • Example code to store the logicals in variables.	Vectors & Data Types	2:27
10	Attributes & Names	• Description of attributes and names in R language. • Describes the use of attributes and names function in R. • Describes script to use these functions.	Vectors & Data Types	4:46
11	Dim & Dimensions	• Introduction to Dim, a built-in function in R programming. • Creating data in a dimension and changing atomic vector's data into multi-dimensional data. • Importance of dim() function in Bioinformatics.	Vectors & Data Types	5:46
12	Matrix & Matrices	• Introduction to Matrices in R language. • Purpose of matrix(), a built-in function in R programming. • Describes matrix initiation, customization of matrix rows and columns matrix layout.	Vectors & Data Types	4:42
13	Arrays	• Introduction to arrays datatype in R programming language. • Different way of creating dimensions and multi-dimensions. • Describes kind of function to use for creating dimensional data depends upon the kind of analysis one is working on.	Vectors & Data Types	3:42
14	Class	• Introduction classes in R programming language. • Use of built-in function class() in R programming. • Describe how classes in R represents data's classification.	Vectors & Data Types	3:12
15	Factors	• Introduction to factors in R programming. • Importance of built-in function factor() in R language. • Describes script to categorize data using factor() function in R.	Vectors & Data Types	6:40
16	Coercion	• Introduction to coercion in R language. • Describes to coerce integer data type to character data type using built-in functions in R. • Describes script to coerce one data type to another to make the function work properly.	Vectors & Data Types	4:27

17	Lists	• Introduction to List data type in R language. • Describes how to work with lists in R programming. • Describes script for creating and retrieving lists in R programming.	Vectors & Data Types	6:41