

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**LECTURE SCHEDULE**

**Subject: STATISTICS WITH R PROGRAMMING Academic Year: 2017-18**  
**Name: Mr.D.N.VSYAM KUMAR Year & Sem/Section: II-I SEM 'C'**  
**No. of Lectures per week : 4+1\* (Tutorial)**

S. NO	DATE	UNITS	TOPICS
1	12/06/2017	I	<b>Introduction:</b> R programming overview
2	13/06/2017		How to run R
3	14/06/2017		Basic Math, Variables
4	16/06/2017		R Sessions and Functions
5	17/06/2017		<b>TUTORIAL</b>
6	19/06/2017		Data Types, Vectors,
7	20/06/2017		Advanced Data Structures,
8	21/06/2017		Data Frames,
9	23/06/2017		Lists, Matrices
10	24/06/2017		<b>TUTORIAL</b>
11	27/06/2017		Arrays, Classes.
12	28/06/2017		<b>UNIT TEST -1</b>
13	30/06/2017		<b>PPT OR NPTEL VIDEOS-1</b>
14	01/07/2017		<b>TUTORIAL</b>
15	03/07/2017	II	OT-1, R Programming Structures, Control Statements
16	04/07/2017		Loops, - Looping Over Nonvector Sets
17	05/07/2017		If-Else, Arithmetic and Boolean Operators and values,
18	07/07/2017		Default Values for Argument, Return Values
19	10/07/2017		Deciding Whether to explicitly call return- Returning Complex Objects,
20	11/07/2017		Functions are Objective, No Pointers in R,
21	12/07/2017		Recursion
22	14/07/2017		A Quicksort Implementation-Extended Extended Example: A Binary Search Tree.
23	15/07/2017		<b>TUTORIAL</b>
24	17/07/2017		<b>UNIT TEST -2</b>
25	18/07/2017		<b>PPT OR NPTEL VIDEOS-2</b>
26	19/07/2017	III	OT-2, Doing Math and Simulation in R, Math Function, -Minima and Maxima
27	21/07/2017		Extended Example Calculating Probability- Cumulative Sums and Products
28	22/07/2017		<b>TUTORIAL</b>
29	24/07/2017		Calculus, Functions For Statistical Distribution,
30	25/07/2017		Sorting,
31	26/07/2017		Linear Algebra Operation on Vectors and Matrices
32	28/07/2017		Extended Example: Vector cross Product
33	29/07/2017		<b>TUTORIAL</b>
34	31/07/2017		Extended Example: Finding Stationary Distribution of Markov Chains
35	01/08/2017		Set Operation, Input /out put
36	02/08/2017		Accessing the Keyboard and Monitor
37	04/08/2017		Reading and writer Files
38	05/08/2017		<b>TUTORIAL</b>
39	07/08/2017		<b>PPT OR NPTEL VIDEOS-3</b>

40	08/08/2017		REVISION
41	09/08/2017		REVISION
42	11/08/2017		REVISION
43	12/08/2017		<b>TUTORIAL</b>
44	16/08/2017	<b>IV</b>	Graphics
45	18/08/2017		Creating Graphs
46	19/08/2017		<b>TUTORIAL</b>
47	21/08/2017		The Workhorse of R Base Graphics
48	22/08/2017		the plot() Function – Customizing Graphs
49	23/08/2017		the plot() Function – Customizing Graphs
50	28/08/2017		the plot() Function – Customizing Graphs
51	29/08/2017		Saving Graphs to Files
52	30/08/2017		Saving Graphs to Files
53	01/09/2017		<b>UNIT TEST -3</b>
54	04/09/2017	<b>PPT OR NPTEL VIDEOS-4</b>	
55	05/09/2017	<b>V</b>	OT-3,Probability Distributions
56	06/09/2017		Normal Distribution
57	08/09/2017		Binomial Distribution
58	09/09/2017		<b>TUTORIAL</b>
59	11/09/2017		Poisson Distributions
60	12/09/2017		Other Distribution
61	13/09/2017		Basic Statistics
62	15/09/2017		Correlation and Covariance
63	16/09/2017		<b>TUTORIAL</b>
64	18/09/2017		T-Tests, -ANOVA
65	19/09/2017	<b>UNIT TEST -4</b>	
66	20/09/2017	<b>PPT OR NPTEL VIDEOS-5</b>	
67	22/09/2017	<b>VI</b>	OT-4, Linear Models
68	23/09/2017		<b>TUTORIAL</b>
69	25/09/2017		Simple Linear Regression-Multiple Regression
70	26/09/2017		Generalized Linear Models
71	27/09/2017		Logistic Regression- Poisson Regression
72	03/10/2017		other Generalized Linear Models-Survival Analysis
73	04/10/2017		Nonlinear Models,
74	06/10/2017		Splines- Decision- Random Forests
75	07/10/2017		<b>PPT OR NPTEL VIDEOS-6</b>
76	09/10/2017		<b>TUTORIAL</b>
77	10/10/2017	REVISION	
78	11/10/2017	REVISION	
79	12/10/2017	REVISION	
80	13/10/2017	REVISION	

<b>Text Books</b>	
1	The Art of R Programming, Norman Matloff, Cengage Learning
2	R for Everyone, Lander, Pearson
<b>References</b>	
1	R Cookbook, Paul Teetor, Oreilly.
2	R in Action, Rob Kabacoff, Manning

**FACULTY MEMBER**

**HEAD OF THE DEPARTMENT**

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