

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: Dr.S.INDRANEEL

Year & Sem/Section: II-I SEM 'B'

No. of Lectures per week : 4+1* (Tutorial)

S. NO	DATE	UNITS	TOPICS
1	12/06/2017	I	Introduction: R programming overview
2	13/06/2017		How to run R
3	15/06/2017		Basic Math, Variables
4	16/06/2017		R Sessions and Functions
5	17/06/2017		TUTORIAL
6	19/06/2017		Data Types, Vectors,
7	20/06/2017		Advanced Data Structures,
8	22/06/2017		Data Frames,
9	23/06/2017		Lists, Matrices
10	24/06/2017		TUTORIAL
11	27/06/2017		Arrays, Classes.
12	29/06/2017		UNIT TEST -1
13	30/06/2017		PPT OR NPTEL VIDEOS-1
14	01/07/2017		TUTORIAL
15	03/07/2017	II	OT-1, R Programming Structures, Control Statements
16	04/07/2017		Loops, - Looping Over Nonvector Sets
17	06/07/2017		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	13/07/2017		Recursion
22	14/07/2017		A Quicksort Implementation-Extended Extended Example: A Binary Search Tree.
23	15/07/2017		TUTORIAL
24	17/07/2017		UNIT TEST -2
25	18/07/2017		PPT OR NPTEL VIDEOS-2
26	20/07/2017		III
27	21/07/2017	Extended Example Calculating Probability- Cumulative Sums and Products	
28	22/07/2017	TUTORIAL	
29	24/07/2017	Calculus, Functions For Statistical Distribution,	
30	25/07/2017	Sorting,	
31	27/07/2017	Linear Algebra Operation on Vectors and Matrices	
32	28/07/2017	Extended Example: Vector cross Product	
33	29/07/2017	TUTORIAL	
34	31/07/2017	Extended Example: Finding Stationary Distribution of Markov Chains	
35	01/08/2017	Set Operation, Input /out put	
36	03/08/2017	Accessing the Keyboard and Monitor	
37	04/08/2017	Reading and writer Files	
38	05/08/2017	TUTORIAL	
39	07/08/2017	PPT OR NPTEL VIDEOS-3	
40	08/08/2017	REVISION	

41	09/08/2017		REVISION
42	10/08/2017		REVISION
43	12/08/2017		TUTORIAL
44	17/08/2017	IV	Graphics
45	18/08/2017		Creating Graphs
46	19/08/2017		TUTORIAL
47	21/08/2017		The Workhorse of R Base Graphics
48	22/08/2017		the plot() Function – Customizing Graphs
49	24/08/2017		the plot() Function – Customizing Graphs
50	28/08/2017		Saving Graphs to Files
51	29/08/2017		Saving Graphs to Files
52	31/08/2017		UNIT TEST -3
53	01/09/2017		PPT OR NPTEL VIDEOS-4
54	04/09/2017		V
55	05/09/2017	Normal Distribution	
56	07/09/2017	Binomial Distribution	
57	08/09/2017	Poisson Distributions	
58	09/09/2017	TUTORIAL	
59	11/09/2017	Other Distribution	
60	12/09/2017	Basic Statistics	
61	14/09/2017	Correlation and Covariance	
62	15/09/2017	T-Tests,-ANOVA	
63	16/09/2017	TUTORIAL	
64	18/09/2017	UNIT TEST -4	
65	19/09/2017	PPT OR NPTEL VIDEOS-5	
66	21/09/2017	OT-4, Linear Models	
67	22/09/2017	Simple Linear Regression-Multiple Regression	
68	23/09/2017	TUTORIAL	
69	25/09/2017	Generalized Linear Models	
70	26/09/2017	Logistic Regression- Poisson Regression	
71	03/10/2017	other Generalized Linear Models-Survival Analysis	
72	05/10/2017	Nonlinear Models	
73	06/10/2017	Splines- Decision- Random Forests	
74	07/10/2017	PPT OR NPTEL VIDEOS-6	
75	09/10/2017	TUTORIAL	
76	10/10/2017	REVISION	
77	12/10/2017	REVISION	
78	13/10/2017	REVISION	
79	14/10/2017	REVISION	

Text Books

1	1) The Art of R Programming, A K Verma, Cengage Learning.
2	2) R for Everyone Lander, Pearson
3	3) The Art of R Programming, Norman Matloff, No starch Press.

References

1	R Cookbook, Paul Teetor, Oreilly.
2	R in Action, Rob Kabacoff, Manning

FACULTY MEMBER

HEAD OF THE DEPARTMENT

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