

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

Subject: STATISTICS WITH R PROGRAMMING
Name: Dr. S. INDRANEEL
No. of Lectures per week : 4+1* (Tutorial)

Academic Year: 2019-20
Year & Sem/Section: II-I SEM 'A'

S. NO	DATE	UNITS	TOPICS
1	10/06/2019	I	Introduction: R programming overview
2	11/06/2019		How to run R
3	12/06/2019		Basic Math, Variables
4	13/06/2019		R Sessions and Functions
5	14/06/2019		Data Types, Vectors,
6	17/06/2019		TUTORIAL
7	18/06/2019		Advanced Data Structures,
8	19/06/2019		Data Frames,
9	20/06/2019		Lists, Matrices
10	21/06/2019		Arrays, Classes.
11	24/06/2019		TUTORIAL
12	25/06/2019		REVISION THROUGH PPT
13	26/06/2019		UNIT TEST -1
14	27/06/2019	II	OT-1, R Programming Structures, Control Statements
15	28/06/2019		Loops, - Looping Over Nonvector Sets,
16	01/07/2019		TUTORIAL
17	02/07/2019		If-Else, Arithmetic and Boolean Operators and values,
18	03/07/2019		Default Values for Argument, Return Values,
19	04/07/2019		Deciding Whether to explicitly call return- Returning Complex Objects,
20	05/07/2019		Functions are Objective, No Pointers in R,
21	08/07/2019		TUTORIAL
22	09/07/2019		Recursion
23	10/07/2019		A Quicksort Implementation-Extended Extended Example: A Binary Search Tree.
24	11/07/2019		REVISION THROUGH PPT
25	12/07/2019		UNIT TEST -2
26	15/07/2019		TUTORIAL
27	16/07/2019	III	OT-2, Doing Math and Simulation in R, Math Function, -Minima and Maxima
28	17/07/2019		Extended Example Calculating Probability- Cumulative Sums and Products
29	18/07/2019		Calculus, Functions For Statistical Distribution,
30	19/07/2019		Sorting,
31	22/07/2019		TUTORIAL
32	23/07/2019		Linear Algebra Operation on Vectors and Matrices
33	24/07/2019		Extended Example: Vector cross Product
34	25/07/2019		Extended Example: Finding Stationary Distribution of Markov Chains
35	26/07/2019		Set Operation, Input /out put
36	29/07/2019		TUTORIAL
37	30/07/2019		Accessing the Keyboard and Monitor
38	31/07/2019		Reading and writer Files
39	01/08/2019		REVISION THROUGH PPT
40	02/08/2019		REVISION
41	05/08/2019		REVISION
42	06/08/2019		REVISION

43	07/08/2019		REVISION
44	08/08/2019		REVISION
45	09/08/2019		REVISION
46	13/08/2019	IV	Graphics
47	14/08/2019		Creating Graphs
48	16/08/2019		The Workhorse of R Base Graphics
49	19/08/2019		TUTORIAL
50	20/08/2019		the plot() Function – Customizing Graphs
51	21/08/2019		the plot() Function – Customizing Graphs
52	22/08/2019		the plot() Function – Customizing Graphs
53	26/08/2019		TUTORIAL
54	27/08/2019		Saving Graphs to Files
55	28/08/2019		REVISION THROUGH PPT
56	29/08/2019		UNIT TEST -3
57	30/08/2019		V
58	03/09/2019	Normal Distribution	
59	04/09/2019	Binomial Distribution	
60	05/09/2019	Poisson Distributions	
61	06/09/2019	Other Distribution	
62	09/09/2019	TUTORIAL	
63	11/09/2019	Basic Statistics	
64	12/09/2019	Correlation and Covariance	
65	13/09/2019	T-Tests,-ANOVA	
66	16/09/2019	TUTORIAL	
67	17/09/2019	REVISION THROUGH PPT	
68	18/09/2019	UNIT TEST -4	
69	19/09/2019	VI	OT-4, Linear Models
70	20/09/2019		Simple Linear Regression-Multiple Regression
71	23/09/2019		TUTORIAL
72	24/09/2019		Generalized Linear Models
73	25/09/2019		Logistic Regression- Poisson Regression
74	26/09/2019		other Generalized Linear Models-Survival Analysis
75	27/09/2019		Nonlinear Models
76	30/09/2019		TUTORIAL
77	01/09/2019		Splines- Decision- Random Forests
78	03/10/2019		REVISION THROUGH PPT
79	04/10/2019		REVISION
80	07/10/2019		REVISION
81	08/10/2019		REVISION
82	09/10/2019		REVISION
83	10/10/2019		REVISION
84	11/10/2019		REVISION

Text Books

1	The Art of R Programming, Norman Matloff, Cengage Learning
2	R for Everyone, Lander, Pearson

References

1	R Cookbook, Paul Teetor, O'Reilly.
2	R in Action, Rob Kabacoff, Manning