

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

Subject: STATISTICS WITH R PROGRAMMING

Academic Year: 2019-20

Name: Dr.S.INDRANEEL

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

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

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

42	08/08/2019		REVISION	
43	09/08/2019		REVISION	
44	10/08/2019		REVISION	
45	14/08/2019	IV	Graphics	
46	16/08/2019		TUTORIAL	
47	17/08/2019		Creating Graphs	
48	19/08/2019		The Workhorse of R Base Graphics	
49	21/08/2019		the plot() Function – Customizing Graphs	
50	22/08/2019		the plot() Function – Customizing Graphs	
51	26/08/2019		the plot() Function – Customizing Graphs	
52	28/08/2019		Saving Graphs to Files	
53	29/08/2019		Saving Graphs to Files	
54	30/08/2019		TUTORIAL	
55	31/08/2019		REVISION USING PPT	
56	04/09/2019		UNIT TEST -3	
57	05/09/2019		V	OT-3,Probability Distributions
58	06/09/2019			TUTORIAL
59	07/09/2019	Normal Distribution		
60	09/09/2019	Binomial Distribution		
61	11/09/2019	Poisson Distributions		
62	12/09/2019	Other Distribution		
63	13/09/2019	TUTORIAL		
64	16/09/2019	Basic Statistics		
65	18/09/2019	Correlation and Covariance		
66	19/09/2019	T-Tests, -ANOVA		
67	20/09/2019	TUTORIAL		
68	21/09/2019	REVISION USING PPT		
69	23/09/2019	UNIT TEST -4		
70	25/09/2019	VI		OT-4, Linear Models
71	26/09/2019		Simple Linear Regression-Multiple Regression	
72	27/09/2019		TUTORIAL	
73	26/09/2019		Generalized Linear Models	
74	28/09/2019		Logistic Regression- Poisson Regression	
75	30/09/2019		other Generalized Linear Models-Survival Analysis	
76	03/10/2019		Nonlinear Models,	
77	04/10/2019		Splines- Decision- Random Forests	
78	05/10/2019		REVISION USING PPT	
79	07/10/2019		REVISION	
80	09/10/2019	REVISION		
81	10/10/2019	REVISION		
82	11/10/2019	REVISION		
83	12/10/2019	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, Oreilly.
2	R in Action, Rob Kabacoff, Manning

FACULTY MEMBER

HEAD OF THE DEPARTMENT