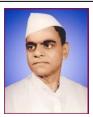


Janata Shikshan Sanstha's

KISAN VEER MAHAVIDYALAYA, WAI

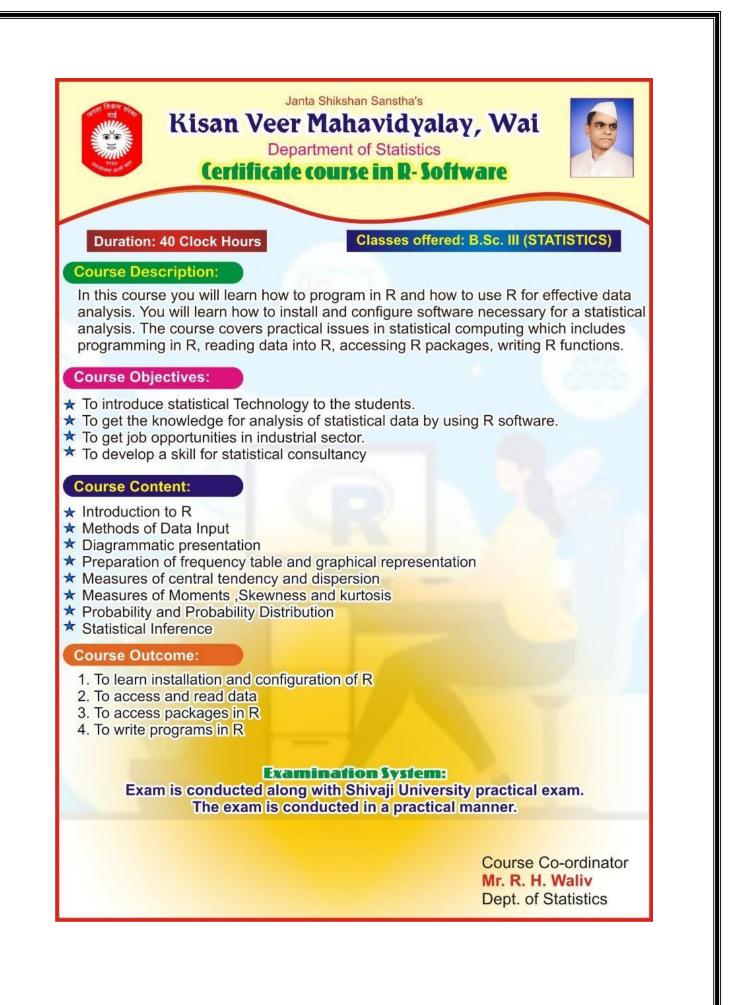


Certificate Course Report

Supportive Documents for Certificate Course Annual Report

Certificate Course Annual Report includes-

- 1. Short Report of the Particular Academic Year
- 2. Notice regarding the Introduction date of the course
- 3. Syllabus of the Course
- 4. Course Objectives and Outcomes
- 5. List of enrolled students.
- 6. Result
- 7. One Sample Certificate





Janata Shikshan Sanstha's

KISAN VEER MAHAVIDYALAYA, WAI

Department of Statistics

"Certificate course in R- Software"

Course Report 2020-21



JanataShikshanSanstha's KISAN VEER MAHAVIDYALAYA,WAI E.

Department of Statistics

"Certificate course in R- Software"

Course Report 2020-21

From 2017-18 the Department of Statistics conducted 01 certificate course. The title of the course for B.Sc. III is "Certificate course in R-Software". The course was started on 10 August 2020. The time-table was displayed on the department's notice board.

18 students were admitted for the said course. Due to Covid-19 situation online examination of the said course was conducted. The examination is of MCQ type. Students gained the new knowledge about use of R software for statistical computation. The supportive staff and the administration of the College and specially Hon. Principal supported a lot.

Estale 100

Principal Kisan Veer Mahavidyalay,Wai



Course Co-ordinator Department of Statistics

2. Notice of the Course

Department of Statistics Kisan Veer Mahavidyalaya, Wai Date : 01/08/2020

All the students in B.Sc. III are hereby informed that "Certificate course in R-Software" is going to start from 10/08/2020. This course is compulsory for B.Sc. III (Statistics) Students. Due to COVID situation course will be conducted online.



Balevas

Principal

Kisan Veer Mahavidyalay,Wai

3. Syllabus of the Course

Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya, Wai **Department of Statistics** Certificate Course in R-Software

Syllabus

1. Introduction to R

- I. Introduction
- II. R as a Statistical Software and language
- III. Data types and arithmetic operators
- IV. R preliminaries

2. Methods of Data Input

- I. C-function
- II. Seq-function
- III. Scan function
- IV. Rep-functionV. Data-frame function
- VI. Matrix function

3. Diagrammatic presentation

Standard plot functions, arguments to plot function, low level plotting functions Bar diagram, Sub-divided bar diagram, multiple bar diagram, subdivided bar diagram, pie- diagram, stem and leaf plot.

4. Preparation of frequency table and graphical representation

Construction of frequency distribution table (for discrete and grouped data).Graphical representation- Rod and Spike graph, Histogram, Frequency polygon, Ogive curves.

5. Measures of central tendency and dispersion-

Arithmetic Mean, Geometric mean, Harmonic mean, Median, Quartiles Deciles, Percentiles, Mode.Interquartile range, Mean deviation about mean, Variance, Standard Deviation, Coefficient of variation.

6. Measures of Moments ,Skewness and kurtosis-

Raw and central moments, Measures of Skewness, Measures of Kurtosis.

7. Probability and Probability Distribution

Application of Binomial Distribution, Fitting of Binomial distribution Application of hypergeometric distribution, fitting of hypergeometric distribution, Poisson Distribution.

Normal Distribution, Exponential Distribution.

8. Statistical Inference

- I. Sampling distribution of sample mean
- II. Estimation of parameters
- III. Plots to check normality
- **IV.** Hypothesis testing, chi-square test, t-test, f-test
- V. Goodness of fit tests.

4. Objectives of the Course

Objectives of the course

- 1) To introduce statistical Technology to the students.
- To get the knowledge for analysis of statistical data by using R software.
- 3) To get job opportunities in industrial sector.
- 4) To develop a skill for statistical consultancy.

5. List of enrolled students

		Janata Shikshan Sanstha's								
	Kis	an Veer Mahavidyalaya, Wai								
	Department of Statistics									
	List of Students (R Software Course 2020-21)									
Sr. No.	Roll No.	Name of students								
Sr. Iter	121	SHELAR AKSHADA ANANDA								
2	122	CHAVAN AKSHADA NAMDEV								
3	123	PHARANDE RASIKA AVINASH								
4	124	KSHIRSAGAR RUTUJA SANTOSH								
5	126	JADHAV KIRTI RAMESH								
6	127	GAIKWAD SANCHITA ANIL								
7	128	RAJPURE AISHWARYA JITENDRA								
8	129	WADKAR MAHESH RAJENDRA								
9	130	BHOSALE NIKITA RAMCHANDRA								
10	131	JAGTAP AKASH RAVINDRA								
11	132	ZANJURNE ANKITA PRATAP								
12	133	KUMBHAR VAISHNAVI PRUTHWIRAJ								
13	134	GAURAVI DATTATRAY SONAWANE								
14	135	SARGAR SHREYA VITTHAL								
15	136	WADKAR SNEHA SHASHIKANT								
16	137	WADKAR RUTUJA GANESH								
17	138	PRIYA DATTATRAYA GADHAVE								
18	157	PAWAR VAIBHAV BABURAO								

TSRat



Head Department of Statistics Veer Mahavidyalaya, Wal Dist. Satara - 412803

6.Attendance sheet

Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya, Wai Department of Statistics (B.Sc III) 2020-21 Certificate course in R software in Statistics

Sr.No	Roll No.	10/8/20		course in R			1 1 .	101.01	
1			1418120	21/8/020	2818/02		2011/09	18/09/	25/09/0
1	121	P	P	P	P	A	P	ρ	P
2	122	P	P	P	P	P	P	P	P
3	123	P	P	P	P	P	P	P	À
4	- 124	P	A	P	9	P	P	P	P
5	126	1	P	P	2	P	P	P	A
6	127	Å	P	8	P	P	A	P	P
Ż	128	P	P	P	2	P	P	P	P
8	129	P	P	2	1	1	P	P	A
9	130	P	P	P	P	P	P	P	P
10	131	P	P	P	P	A	P	P	A
11	132	8	P	P	P	12	P	P	P
12	133	P	P	1	P	P	P	P	P
13	134	P	P	P	P	P	P	P	P
14	135	P	P	2	P	8	P	A	P
15	136	0	2	P	P	P	P	P	P
16	137	P	P	P	P	P	P	A	P
17	138	A	P	P	P	P	P	P	P
18	157	P	P	P	P	P	P	A	P

Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya, Wai Department of Statistics (B.Sc III) 2020-21 Certificate course in R software in Statistics

Sr.No	Roll No.	2 10/020	9/10/020	16/20/20	23/10	30/10	6111	27/11	4/12/2
1	121	P	A	P	P	P	P	P	P
2	122	P	P	P	A	P	P	P	A
3	123	ρ	P	P	P	P	P	P	P
4	124	P	P	P	P	P	P	P	P
5	126	A	P	P	A	P	P	P	A
6	127	P	8	P	A	P	P	P.	P
7	128	P	P	A	A	A	P	A	A
8	129	A	P	P	P	P	P	P	P
9	130	P	P	P	P P	P	l	P	A
10	131	P	P	P	l	P	P	P	P
11	132	Ä	P	P	P	P	P	P	P
12	133	P	P	P	P	A	ł	P	P
13	134	P	A	P	P	P	P	P	P
14	135	P	P	P	A	P	1	P	A
15	136	P	P	P	P	P	A	P	P
16	137	A	P	P	A	P	P	P	P
17	138	p	P	P	P	P	A	P	F
18	157	P	A	P	A	P	P	P	P



Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya, Wai Department of Statistics (B.Sc III) 2020-21 Certificate course in R software in Statistics

				course in R	Software	in Statistics		1 1 1	
Sr.No	Roll No.	11/12/02	18/12/	25/12/20	8/01/2	15/01/2	22/01/21	29/01/	5/2/2
1	121	P	P	P	P	A	P	P	P
2	122	P	P	P	P	P	A	P	A
3	123	P	P	P	A	P	9	P	P
4	124	P	P	P	P	P	P	P	P
5	126	P	P	P	P	P	P	P	P
6	127	P	P	P	P	P	P	P	A
7	128	P	P	P	P	A	P	P	P
8	129	P	P	P	P	P	P	P	P
9	130	P	P	P	P	P	A	P	P
10	131	P	P	P	P	P	P	P	A
11	132	P	P	P	P	P	P	P	P
12	133	P	P	P	P	P	P	P	P
13	134	A	?	P	P	P	P	P	P
14	135	P	P	P	P	P	P	P	P
15	136	P	P	P	P	P	P	P	P
16	137	P	P	P	A	P	P	P	P
17	138	P	P	P	P	P	P	P	P
18	157	e,	P	P	P	4	P	P	9

Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya, Wai Department of Statistics (B.Sc III) 2020-21 Certificate course in R software in Statistics

Sr.No	Roll No.	12/2/21	19/2/21	28/2/21	5/3/2	11/3/21	19/3/21		
1	121	P	A	P	P	P	P		
2	122	P	P	P	A	P	2		
3	123	P	P	IA	P	P	P		
4	124	P	P	P	P	P	A		
5	126	P	P	P	P	P	P		
6	127	P	A	P	P	P	P		
7	128	P	P	P	P	P	P		
8	129	P	P	P	P	P	A		
9	130	A	P	Ă	P	P	P		
10	131	P	P	P	P	P	P	and the second s	
11	132	P	P	P	P	P	P		
12	133	P	P	P	P	P	A		2.05
13	134	P	P	P	P	P	P		1
14	135	p.	A	P	P	P	P		
15	136	P	P	P	P	A	P		
16	137	P	P	P	P	P	P		
17	138	P	P	A	f	P	P		
18	157	P	P	P	P	A	P		



7. Result

302	Janata Shikshan Sanstha's
N	san Veer Mahavidyalaya, Wai
	Department of Statistics theet of R Software Course 2020-21
Roll No.	Marks
121	7 Warks
122	9
123	10
124	9
126	9
127	10
128	10
129	10
130	AB
131	8
132	10
133	9
134	10
135	10
136	AB
137	AB
138	7
157	9

course co-ordinator

8. One Sample Certificate

