

JanataShikshanSanstha's

KISAN VEER MAHAVIDYALAYA, WAI

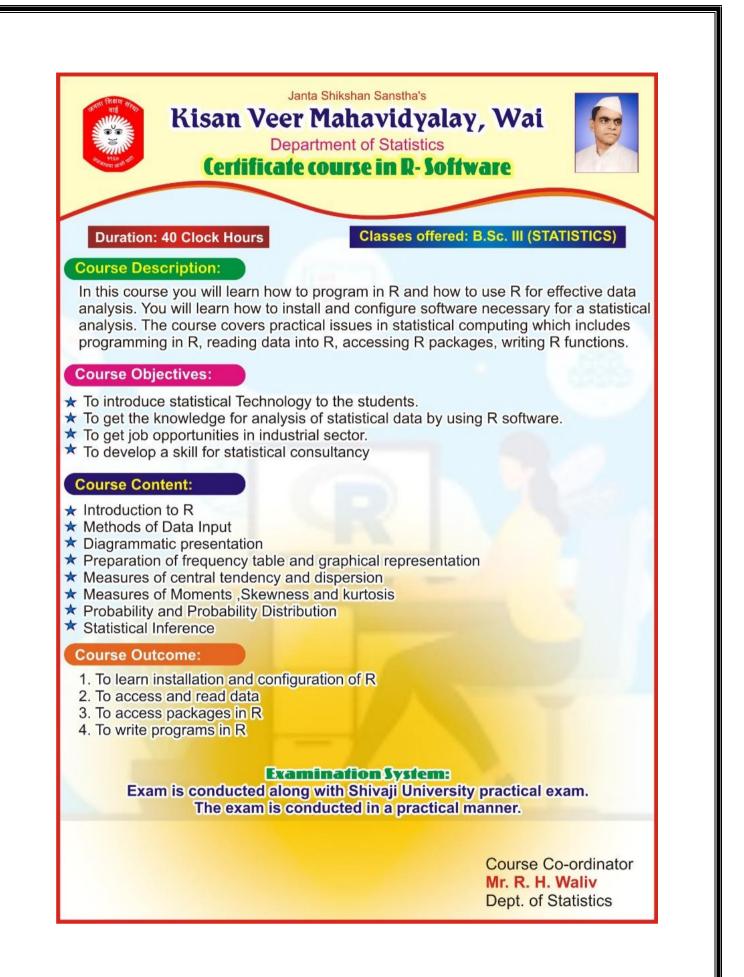


**Certificate Course Report** 

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. One Sample Certificate
- 7. Result





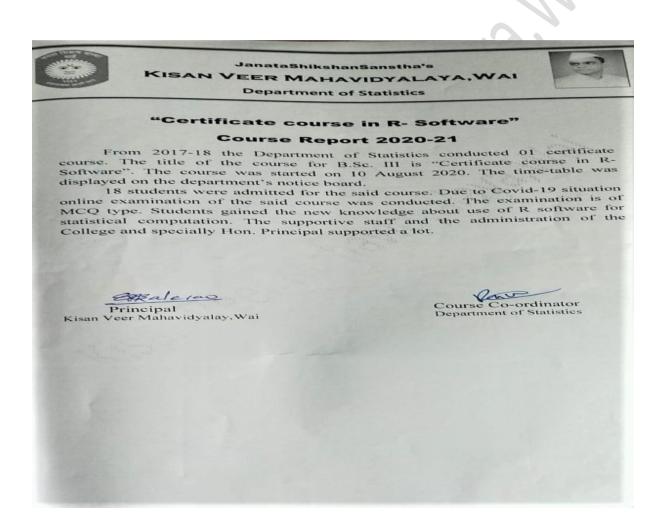
JanataShikshanSanstha's

KISAN VEER MAHAVIDYALAYA, WAI

Department of Statistics

### "Certificate course in R- Software"

### **Course Report 2020-21**



### 2. Notice of the Course



#### **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-function
- V. 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	san Veer Mahavidyalaya, Wai
		Department of Statistics
NIA	Roll No.	tudents (R Software Course 2020-21)
r. No.	121	Name of students
1	122	SHELAR AKSHADA ANANDA
2	123	CHAVAN AKSHADA NAMDEV
3	124	PHARANDE RASIKA AVINASH
4	124	KSHIRSAGAR RUTUJA SANTOSH
5	120	JADHAV KIRTI RAMESH
6	1	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 on Veer Mahavidyalaya, Wal nist, Satara - 412803

### 6. One Sample Certificate



## 7. Result

	Janata Shikshan Sanstha's isan Veer Mahavidyalaya, Wai Department of Statistics
Roll No.	sheet of R Software Course 2020-21
121	7 Marks
122	0
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