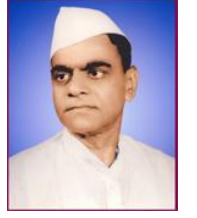




**JanataShikshanSanstha's**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**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. Time Table**
- 7. Attendance Sheets**
- 8. One Sample Certificate**
- 9. Result**

Kisan



**Janata Shikshan Sanstha's**  
**KISAN VEER MAHAVIDYALAYA, WAI**  
**Department of Statistics**



**“Certificate course in R- Software”**

**Course Report 2019-20**

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 5 August 2019. The time-table was displayed on the department’s notice board.

24 students were admitted for the said course. Examination of the said course was conducted along with practical exam of B.Sc. III. 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.

Principal  
Kisan Veer Mahavidyalay, Wai

Course Co-ordinator  
Department of Statistics

## 2. Notice of the Course

Department of Statistics  
Kisan Veer Mahavidyalaya, Wai  
Date : 01/08/2019

All the students in B.Sc. III are hereby informed that “Certificate course in R- Software” is going to start from 05/08/2019. This course is compulsory for B.Sc. III (Statistics ) Students.



Principal  
Kisan Veer Mahavidyalay, Wai



Course Co-ordinator  
Department of Statistics

## 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.

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## 4. Objectives of the Course

### Objectives of the course

- 1) To introduce statistical Technology to the students.
- 2) 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.

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## 5. List of enrolled students

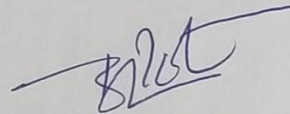
Janata Shikashan Sanstha's  
Kisan Veer Mahavidyalaya, Wai

B. Sc. III

2019- 2020

R' Software List

Sr. No.	Roll No.	Name of Student
1	121	PHANSE KOMAL JAGANNATH
2	122	NEVASE SONALI CHANDRAKANT
3	123	RAUT NIVEDITA BHASKAR
4	124	SONAWALE AISHWARYA KISAN
5	125	KESHAWAY SELIN SUNIL
6	126	KONDHALKAR MONALI HINDURAO
7	127	GADHAVE SAMRUDDHI SANJAY
8	128	NIMBALKAR ANKITA SUNIL
9	129	PISAL ANKITA DNYANESHWAR
10	130	GOLE NILAM BHARAT
11	131	PACHANGANE MANASI RAVINDRA
12	132	SHINDE SWARAJ JIVAN
13	133	CHAVAN ANUJA SANJAY
14	134	SAWANT SHUBHAM MANOJ
15	135	ITHAPE MAYURI RAMESH
16	136	ITHAPE SNEHAL SUNIL
17	137	CHAUDHARI NEHA PRAKASH
18	138	BHANAGE PRAJAKTA UTTAM
19	139	KUMBHAR DHANSHREE ANKUSH
20	140	RAJPURE SHRADDHA SHRIKANT
21	141	RAJPURE PRATIKSHA ROHIDAS
22	142	GORE SARITA BABAN
23	148	SURYAWANSHI TANUJA SHIVDAS
24	149	GAIKWAD SONALI ANIL



**Head**

Department of Statistics  
Kisan Veer Mahavidyalaya, Wai  
Dist. Satara - 412803

## 6. Time Table

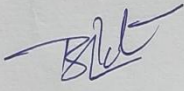
JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA, WAI

TIME TABLE

19-2020  
YEAR: 2018-2019

B.Sc. - III (Division A)  
'R' Software Course

Sr. No.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	11.00 to 3.00	Batch I		Batch I	Batch I		Batch I

  
Head  
Department of Statistics  
Kisan Veer Mahavidyaya, Wai  
Dist. Satara - 412803

Kisan





## 8. One Sample Certificate



## 9. Result

Sr. No.	Roll No.	Marks
1	140	8
2	139	7
3	134	8
4	132	9
5	122	9
6	123	9
7	141	7
8	142	8
9	131	9
10	133	7
11	136	7
12	135	7
13	137	7
14	149	7
15	148	7
16	129	7
17	128	8
18	126	8
19	127	8
20	130	8
21	125	8
22	124	8
23	138	9
24	121	8

  
Course Coordinator  
Department of Statistics