



**Janata Shikshan Sanstha's**  
**KISAN VEER MAHAVIDYALAYA, WAI**



**Certificate Course Report**

**Supportive Documents for  
Certificate Course Annual Report**

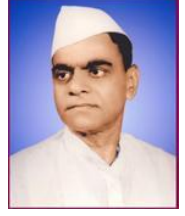
**Certificate Course Annual Report includes-**

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

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



**“Certificate Course in R- Software”**  
**Course Report 2018-19**



**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Statistics**



**“Certificate Course in R- Software”**  
**Course Report 2018-19**

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 9 July 2018. The time-table was displayed on the department's notice board.

18 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.

*E. B. Bhalerao*

**Dr. E. B. Bhalerao**  
I/C Principal  
Kisan Veer Mahavidyalaya, Wai



*R. H. Waliv*

**Prof. R. H. Waliv**  
Course Co-ordinator  
Department of Statistics

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## 2. Notice of the Course


Department of Statistics  
Kisan Veer Mahavidyalaya, Wai.  
Date: 02/07/2018

### NOTICE

All the students of B.Sc.Part III are hereby informed that, **Certificate Course in R-Software** in Statistics is going to start from 9<sup>th</sup> July, 2018. this course is compulsory to all B.Sc.III Statistics students.



  
Head  
Department of Statistics

  
I/C PRINCIPAL  
KISAN VEER MAHAVIYALAYA  
Tal. Wai, Dist. Satara

## 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

Certificate Course in R software

Janata Shikashan Sanstha's  
Kisan Veer Mahavidyalaya, Wai  
B. Sc. III  
2018- 2019  
Student List

Sr. No.	Roll No.	Name Of the Student
1	121	KUMBHAR PRIYANKA SHASHIKANT
2	122	SUKALE MANASI MANOJ
3	123	BAVALEKAR NILESH VASANT
4	124	YADAV AKASH RAMCHANDRA
5	125	DHANWADE GANESH MAHADEV
6	126	SHEWALE SUSHANT MOHAN
7	127	RAJPURE PRAJAKTA SUNIL
8	128	NIMBALKAR HARSHADA PRAMOD
9	129	POPHALE ARATI SURESH
10	130	BAGWAN VASIMA YUSUF
11	131	JADHAV POOJA BALU
12	132	PISAL SMITA VIJAYKUMAR
13	133	PISAL URMILA SHIVAJI
14	134	BHOSALE RUTUJA RUPCHAND
15	135	THORAT SAYALI SHIVAJI
16	136	SHELAR UTKARSHA UTTAM
17	137	MARDHEKAR MAYUR SUNIL
18	143	SHINDE CHAITANYA SHUREH



*[Signature]*  
Head  
Department of Statistics  
Kisan Veer Mahavidyalaya, Wai  
Dist. Satara - 412803

*[Signature]*

**I/C PRINCIPAL**  
**KISAN VEER MAHAVIDYALAYA**  
**Tal. Wai, Dist. Satara**


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## 6. Time Table

Janata Shikshan Sanstha's  
Kisan Veer Mahavidyalaya, Wai  
Department Of Statistics  
Time Table  
R- Software course  
B.Sc.III (2018-19)

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11.00 to 3.00					Batch I	Batch I



  
Head  
Department of Statistics  
Kisan Veer Mahavidyalaya, Wai

  
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Tal. Wai, Dist. Satara





**Kisan Veer Mahavidyalaya, Wai**  
**Department of Statistics**  
 2018-19 (B.Sc. III) R Software Course

Sr. No.	Roll No.	6/12/18	7/12/18	13/12/18	14/12/18	20/12/18	21/12/18	24/12/18	27/12/18	28/12/18	29/12/18
1	121	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>
2	122	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>
3	123										
4	124										
5	125										
6	126	Sd	-	Sd	Sd	Sd	Sd	Sd	Sd	Sd	Sd
7	127	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>
8	128	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>
9	129	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>
10	130	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan
11	131	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz
12	132										
13	133	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)
14	134										
15	135	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>
16	136	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>
17	137										
18	143										

**Kisan Veer Mahavidyalaya, Wai**  
**Department of Statistics**  
 2018-19 (B.Sc. III) R Software Course

Sr. No.	Roll No.	3/9/18	4/9/18	10/9/18	11/9/18	17/9/18	18/9/18	24/9/18	25/9/18	27/9/18	29/9/18
1	121	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>	<del>Bunb</del>
2	122	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>	<del>Mskale</del>
3	123										
4	124										
5	125										
6	126	Sd	-	Sd	Sd	Sd	Sd	Sd	Sd	Sd	Sd
7	127	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>	<del>Pjpuze</del>
8	128	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>	<del>Jashimbe</del>
9	129	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>	<del>Apohale</del>
10	130	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan	VYBaqwan
11	131	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz	Bujadhaz
12	132										
13	133	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)	(Bisal)
14	134										
15	135	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>	<del>Stm</del>
16	136	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>	<del>Qshelax</del>
17	137										
18	143										

**I/C PRINCIPAL**  
**KISAN VEER MAHAVIYALAYA**  
 Tal. Wai, Dist. Satara

## 8. Result

Janata shikshan sanstha's  
Kisan veer mahavidyalaya, wai  
Department of statistics  
Marksheet of Student's R Software Course  
2018-19

Roll No.	Name of Student	Marks
121	KUMBHAR PRIYANKA SHASHIKANT	10
122	SUKALE MANASI MANOJ	9
123	BAVALEKAR NILESH VASANT	7
124	YADAV AKASH RAMCHANDRA	7
125	DHANWADE GANESH MAHADEV	7
126	SHEWALE SUSHANT MOHAN	8
127	RAJPURE PRAJAKTA SUNIL	10
128	NIMBALKAR HARSHADA PRAMOD	9
129	POPHALE ARATI SURESH	9
130	BAGWAN VASIMA YUSUF	9
131	JADHAV POOJA BALU	8
132	PISAL SMITA VIJAYKUMAR	7
133	PISAL URMILA SHIVAJI	9
134	BHOSALE RUTUJA RUPCHAND	7
135	THORAT SAYALI SHIVAJI	8
136	SHELAR UTKARSHA UTTAM	10
137	MARDHEKAR MAYUR SUNIL	7
143	SHINDE CHAITANYA SHURESH	7



*[Signature]*  
Head  
Department of Statistics  
Kisan Veer Mahavidyalaya, Wai

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Tal. Wai, Dist. Satara

## 9.One Sample Certificate

