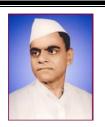


# JanataShikshanSanstha's KISAN VEER MAHAVIDYALAYA, WAI



## **Certificate Course Report**

## **Supportive Documents for Certificate Course Annual Report**

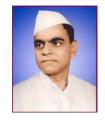
#### **Certificate Course Annual Report includes-**

- 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



#### JanataShikshanSanstha'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

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.
- 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.

## 5. List of enrolled students

Janata Shikashan Sanstha's

## Kisan Veer Mahavidyalaya, Wai

B. Sc. III 2019-2020

Sr. No.	R' Software List  Name of Student				
1	121	PHANSE KOMAL JAGANNATH			
2	122	NEVASE SONALI CHANDRAKAN I			
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			

Department of Statistics Kisan Veer Mahavidyalaya, Wal 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.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
No.							
01	11.00 to 3.00	Batch I		Batch I	Batch I		Batch I

Head

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

## 7. Attendance Sheets:

		ľ	usan ve	er Mah	avidyala	aya,Wa	i.		10/39/49		
	Deapa	rtment	of Statist	ics(B.Sc	e.III)(R	Softwar	re)	grane o			
Sr.No.	Name of the student	14/9/2019	21/9/2019	2/12/2019	911212019	16/12/2019	23/2/2009	30/12/2019	5/1/2019	3/1/2019	2011/20
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3	Raut Nivedita Bhaskar	Rautris	RouthB	RouthB	ROWARB	RawHB	Kompus 6	KauthB !	HOWEND	KOWHB	quint
4	Phanase Komal Jagannath					L 11 14	a IleWa	dhal	2 wandhell	Eavondhall	acumalt
5	Kondhalkar Monali Hindurao	Mondhall	PAKendhalk	rekondhe	K. WKoudye	MKondhe	Tarmen	Terupak	MACHE !	Tanubull	Tanuan
6	suryawanshi Tanuja Shivdas	Termon	Tanyan	Tarmon	Tanyari	Tanua	Alle	Alleg	- Lucia	Harris Control	-
7	Gaikwad Sonali Anil	7			/1	11	Labor	dehaba	Schain	boham	phases
17	Chavan Anuja Sanjay	gran	girace	Achoren	Achar	filmon D	1800	TOO .	1000	1000	TOO
9	Chaudhari Neha Prakash	100	THE STATE OF	(DA)	Mathore (September 1997)	Rithore	College	mothate	my bare	MRH bare	PORT DO
10	Ithape Mayuri Ramesh				STHAR	Mehale	SBHake	Sethale	Sthate	Sthafe	Dethat
	Ithape Snehal Sunil	Sthale	Sethak	STHORE	Althare	signale	garage	percept			
12	Gadhave Samruddhi Sanjay		101	Pole	Pole	Bole	Pole	Pole	Pole	Pole	(BOL
	Gole Nilam Bharat	Gole	Pole		Riser	Rifas	Pres	Avsa.	Asa.	Risas	Bisa
14	Pisal Ankita Dnyaneshwar	Risas	Alimbara	Riter	A. V. 1. 11	Admhalm	Blimbolle	Alimholle	Allmbalka	Alimbal	Alimb
15	Nimbalkar Ankita Sunil	Alimbala	Asimbale 1	Food and 100	Androus and	techawa	techaioa	the showed	to shaw	Heshouse	1 test
16	keshway selin sunil		1 Shawy	Ros	Rook	ROR	Book !	Rome	(AB)R	Birs	-
	Gore Sarita Baban	Flox	Block			D. Alcumbbe		pakumble	P. Alcumbro		
18	Kumbhar Dhanashree Ankush	D A kumbha		8km	Blows	Ohno	(QUOY-	Brown	Blow	Store	(8tg)
19	Rajpure Shraddha Shrikant	8 House	CATA			a sama	Pa Maurin	Aarana	Tophargo	n regarange	W Afairs
20	Pachangane Manasi Ravindra	Thurnda	Murangan	Maranga							- 600-
21	Bhange Prajakta Uttam	ANO 101	Main we	(P) Paip to	@PaiDih	e Charpun	e Ofenn	e Pape	c Chapun	CKOPI	IF (XFC)
22 1	Rajpure Pratiksha Rohidas	Ofejana	- Toluce	C C C	THE SPO						-
23 5	Sankpal Avinash Dilip										
	Shinde Swaraj J.						1 23 112				

## 8. One Sample Certificate



## 9. Result

Sr.	Roll No.	Marks
No.	11011 1 100	1111111
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