

**BLDE ASSOCIATION'S  
S.B.ARTS AND K.C.P SCIENCE COLLEGE,  
VIJAYAPUR**



**DEPARTMENT OF STATISTICS  
VALUE ADDED COURSE**

**ON**

**“ R-PROGRAMMING ”**

**FROM THE ACADEMIC YEAR 2018 – 19**

B.L.D.E Association's  
S.B.Arts and K.C.P. Science College, Vijayapur  
Department of Statistics  
For the Academic Year: 2018 - 19

## NOTICE

This is to inform all the students of BSc Statistics that the " Value added training Course on R-Programme " will starts from first week of July 2018. So the students have to enroll their names in the Department and take benefit of this Course.

  
H.O.D.

Department of Statistics  
BLDEA's S. B. Arts & K.C.P.  
Sci. College, Vijayapur.



**IQAC, Co-ordinator**  
S.B.Arts & K.C.P.Science College,  
Vijayapur.



Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR

# SYLLABUS FOR B.Sc VALUE ADDED COURSE IN STATISTICS

Effective from 2018-19

## OBJECTIVES:

- R is most comprehensive Statistical analysis package as new technology.
- R is an open source.

## R – Programming

Total hours: 30 Hrs

### Unit 1: Introduction to R:

6hrs

Introduction, Importance of R, Help in R, First steps.

### Unit 2: R – An advanced/overgrown calculator:

6hrs

Operators in R, Arithmetic, logical, Relational Operators, Numeric functions, Character functions, Statistical Probability functions.

### Unit 3: Diagrams and Graphics with R:

6hrs

Standard plot functions, some Arguments to plot () function, Low level plotting functions.

### Unit 4: Analysis of Variance (ANOVA):


6hrs


Model, Assumptions, Bartlett's test, Two – way ANOVA.

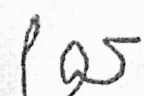
### Unit 5: Time Series Analysis using R:

6 hrs

Uses of Time Series Analysis, Analyzing the time series decomposing the time series, creating a time series, moving average.

  
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VIJAYAPUR

B.L.D.E. A'S  
S.B. ARTS & K. C. P. SCIENCE COLLEGE BIJAPUR.  
DEPARTMENT OF STATISTICS: 2018-2019

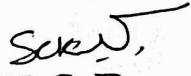
Time Table for Value Added Course


R – Programming


SI.NO	DAY	TIME
1	WEDNESDAY	11.00 to 12.00
2	THURSDAY	11.00 to 12.00

Faculty members for Value Added Course :

1. Prof. S.C.Kalmath
2. Prof. Prema.I.Pattanshetti

  
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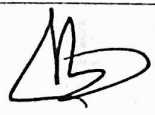
B.L.D.E. Association's  
S.B. ARTS AND K.C.P SCIENCE COLLEGE, BIJAPUR  
Students list for value added-course 2018-19

Subject: statistics

Class : Bsc V Sem

Sl No	Name	Roll No
1	MEENAL . BASUTKAR	62
2	SUSHMITA . KULKARNI	63
3	SUJATA . KAMANAKERI	111
4	ASHWINI . KOLI	112
5	POOJA . GALAGALI	113
6	SHILPA . NAGOLI	114
7	ROOPASHREE . BYAKOD	125
8	NAZIYA . BANDUGOL	131
9	SUNEETA . HOSATHI	136
10	DEEPA . BIRADAR	137
11	SAVITRI . BADIGER	138
12	PRAMILA . ATHANI	139
13	SOUMYA . BASHETTI	141
14	POOJA . KAMBLE	142
15	RANI . KOLI	147
16	PALLAVI . KULKARNI	173
17	HANAMANTIL . KATAPUR	175
18	LAXMI . KAMAGOND	180
19	SUREKHA . GIRIGOUDAR	193
20	SHIVAKUMAR . PARE	226
21	SHARADA . SATIHAL	246
22	SIDDARAMESHWARA . MURAGUNDI	270
23	MALLESH . TORVI	274
24	POOJA . GIDADAMANI	320
25	SHRUTI . MATHAPATI	359
26	VINOD . TENGALÉ	363
27	AKASH . MADIWALAR	380
28	VINAYAK . LALAGE	381
29	NAMRATA . SOUDI	385
30	PRAMA . PATIL	386
31	BHARATI . SANAMAGOND	387
32	SANJEEV . ALLIGIDA	393
33	BHAGAVANTRAY . HANGARAGI	398
34	MASIDDA . NIRVANI	400
35	PRAVEEN . SALI	406
36	VIJAY . RATHOD	410

*Sch*  
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Department of Statistics

For the Academic Year: 2018 – 19

**STUDENT ATTENDANCE LIST FOR "VALUE ADDED TRAINING COURSE" 2018-19**

Sl No	Name	Roll No	4/7	5/7	11/7	12/7	18/7	19/7	25/7	26/7	01/8	02/8
1	MEENAL . BASUTKAR	62	A	A	A	A	A	A	A	A	A	A
2	SUSHMITA . KULKARNI	63	sk	sk	A	sk	sk	sk	sk	A	sk	sk
3	SUJATA . KAMANAKERI	111	sk	sk	sk	sk	A	sk	sk	sk	sk	sk
4	ASHWINI . KOLI	112	Aul	Aul	Aul	Aul	Aul	Aul	Aul	Aul	Aul	A
5	POOJA . GALAGALI	113	Aul	Aul	Aul	Aul	Aul	Aul	Aul	Aul	Aul	Aul
6	SHILPA . NAGOLI	114	Gu	Gu	A	Gu	Gu	Gu	Gu	Gu	Gu	Gu
7	ROOPASHREE . BYAKOD	125	RR	RR	RR	RR	RR	A	RR	RR	RR	RR
8	NAZIYA . BANDUGOL	131	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
9	SUNEETA . HOSATHI	136	RR	A	RR	RR	RR	RR	RR	A	RR	RR
10	DEEPA . BIRADAR	137	RR	RR	RR	RR	A	RR	RR	RR	RR	A
11	SAVITRI . BADIGER	138	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
12	PRAMILA . ATHANI	139	RR	A	RR	RR	RR	RR	A	RR	RR	RR
13	SOUMYA . BASHETTI	141	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
14	POOJA . KAMBLE	142	RR	RR	RR	A	RR	RR	RR	RR	A	RR
15	RANI . KOLI	147	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
16	PALLAVI . KULKARNI	173	RR	RR	RR	A	RR	RR	RR	RR	RR	RR
17	HANAMANTHI . KATAPUR	175	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
18	LAXMI . KAMAGOND	180	RR	RR	RR	RR	RR	RR	RR	A	RR	RR
19	SUREKHA . GIRIGODAR	193	RR	RR	A	RR	RR	RR	RR	RR	RR	RR
20	SHIVAKUMAR . PARE	226	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
21	SHARADA . SAHIAL	246	RR	RR	RR	RR	RR	A	RR	RR	RR	RR
22	SIDDARAMESHWARA . MURAGUNDI	270	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
23	MALLESH . TORVI	274	RR	RR	A	RR	RR	RR	RR	RR	RR	RR
24	POOJA . GIDADAMANI	320	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
25	SHRUTI . MATHAPATI	359	RR	RR	RR	A	RR	RR	RR	A	RR	RR
26	VINOD . TENGALI	363	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
27	AKASH . MADIWALAR	380	RR	RR	RR	RR	A	RR	RR	RR	RR	RR
28	VINAYAK . LALAGE	381	RR	RR	RR	RR	RR	RR	RR	RR	A	RR
29	NAMRATA . SOUDI	385	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
30	PRAMA . PATIL	386	RR	RR	A	RR	RR	RR	RR	RR	RR	RR
31	BHARATI . SANAMAGOND	387	RR	RR	RR	RR	RR	RR	A	RR	RR	RR
32	SANJEEV . ALI GIDA	393	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
33	BHAGAVANTRAY . HANGARAGI	398	RR	RR	A	RR	RR	RR	RR	A	RR	RR
34	MASIDDA . NIRVANI	400	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR
35	PRAVEEN . SALI	406	Sali	Sali	Sali	Sali	A	Sali	Sali	Sali	Sali	A
36	VIJAY . RATHOD	410	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR

*Sun J*  
H.O.D.

Department of Statistics  
BLDEA's S. B. Arts & K.C.P.  
Sci. College, Vijayapur.

*[Signature]*

ICAC, Co-ordinator  
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Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR

B.L.D.E Association's  
**S.B.Arts and K.C.P. Science College, Vijayapur**  
 Department of Statistics  
 For the Academic Year: 2018 – 19

**STUDENT ATTENDANCE LIST FOR "VALUE ADDED TRAINING COURSE" 2018-19**

Sl No	Name	Roll No	8/8	9/8	10/8	23/8	29/8	30/8	01/9	6/9	12/9	13/9
1	MEENAL . BASU IKAR	62	A	A	A	A	A	A	A	A	A	A
2	SUSHMITA . KULKARNI	63	A	A	A	A	A	A	A	A	A	A
3	SUJATA . KAMAN AKERI	111	A	A	A	A	A	A	A	A	A	A
4	ASHWINI . KOLI	112	A	A	A	A	A	A	A	A	A	A
5	POOJA . GALAGALI	113	A	A	A	A	A	A	A	A	A	A
6	SHILPA . NAGOLI	114	A	A	A	A	A	A	A	A	A	A
7	ROOPASHREE . BYAKOD	125	A	A	A	A	A	A	A	A	A	A
8	NAZIYA . BANDUGOL	131	A	A	A	A	A	A	A	A	A	A
9	SUNEETA . HOSATHI	136	A	A	A	A	A	A	A	A	A	A
10	DEEPA . BIRADAR	137	A	A	A	A	A	A	A	A	A	A
11	SAVITRI . BADIGER	138	A	A	A	A	A	A	A	A	A	A
12	PRAMILA . ATHANI	139	A	A	A	A	A	A	A	A	A	A
13	SOUMYA . BASHETTI	141	A	A	A	A	A	A	A	A	A	A
14	POOJA . KAMBLE	142	A	A	A	A	A	A	A	A	A	A
15	K. N. S. Pallavi, Kulkarni	173	A	A	A	A	A	A	A	A	A	A
16	RANI . KOLI	147	A	A	A	A	A	A	A	A	A	A
17	HANAMANTH . KAVAPUR	175	A	A	A	A	A	A	A	A	A	A
18	LAXMI . KAMAGOND	180	A	A	A	A	A	A	A	A	A	A
19	SUREKHA . GIRICODAR	193	A	A	A	A	A	A	A	A	A	A
20	SHIVAKUMAR . PARE	226	A	A	A	A	A	A	A	A	A	A
21	SHARADA . SAHIAL	246	A	A	A	A	A	A	A	A	A	A
22	SIDDARAMESHWARA . MURAGUNDI	270	A	A	A	A	A	A	A	A	A	A
23	MALLESH . TORVI	274	A	A	A	A	A	A	A	A	A	A
24	POOJA . GIDADAMANI	320	A	A	A	A	A	A	A	A	A	A
25	SHRUTI . MATHAPATI	359	A	A	A	A	A	A	A	A	A	A
26	VINOD . TENGAL	363	A	A	A	A	A	A	A	A	A	A
27	AKASH . MADIWALAR	380	A	A	A	A	A	A	A	A	A	A
28	VINAYAK . LALAGE	381	A	A	A	A	A	A	A	A	A	A
29	NAMRATA . SOUDI	385	A	A	A	A	A	A	A	A	A	A
30	PRAMA . PATHI	386	A	A	A	A	A	A	A	A	A	A
31	BHARATI . SANAMAGOND	387	A	A	A	A	A	A	A	A	A	A
32	SANJEEV . ALI GIDA	393	A	A	A	A	A	A	A	A	A	A
33	BHAGAVANTRAY . HANGARAGI	398	A	A	A	A	A	A	A	A	A	A
34	MASIDDA . NIRVANI	400	A	A	A	A	A	A	A	A	A	A
35	PRAVEEN . SALLI	406	A	A	A	A	A	A	A	A	A	A
36	VIJAY . RATHOD	410	A	A	A	A	A	A	A	A	A	A

*S. H. O. D.*  
**H.O.D.**  
 Department of Statistics  
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*[Signature]*  
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*[Signature]*  
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**S.B.Arts and K.C.P. Science College, Vijayapur**  
 Department of Statistics  
 For the Academic Year: 2018 – 19

**STUDENT ATTENDANCE LIST FOR "VALUE ADDED TRAINING COURSE" 2018-19**

Sl No	Name	Roll No	19/19	20/19	26/19	27/19	3/10	4/10	6/10	10/10	11/10	12/10
1	MEENAL . BASUTKAR	62	A	A	A	A	A	A	A	A	A	A
2	SUSHMITA . KULKARNI	63	A	A	A	A	A	A	A	A	A	A
3	SUJATA . KAMANAKERI	111	A	A	A	A	A	A	A	A	A	A
4	ASHWINI . KOLI	112	A	A	A	A	A	A	A	A	A	A
5	POOJA . GALAGALI	113	A	A	A	A	A	A	A	A	A	A
6	SHILPA . NAGOLI	114	A	A	A	A	A	A	A	A	A	A
7	ROOPASHREE . BYAKOD	125	A	A	A	A	A	A	A	A	A	A
8	NAZIYA . BANDUGOL	131	A	A	A	A	A	A	A	A	A	A
9	SUNEETA . HOSATTI	136	A	A	A	A	A	A	A	A	A	A
10	DEEPA . BIRADAR	137	A	A	A	A	A	A	A	A	A	A
11	SAVITRI . BADIGER	138	A	A	A	A	A	A	A	A	A	A
12	PRAMILA . ATHANI	139	A	A	A	A	A	A	A	A	A	A
13	SOUMYA . BASHETTI	141	A	A	A	A	A	A	A	A	A	A
14	POOJA . KAMBLE	142	A	A	A	A	A	A	A	A	A	A
15	RANI . KOLI	147	A	A	A	A	A	A	A	A	A	A
16	PALLAVI . KULKARNI	173	A	A	A	A	A	A	A	A	A	A
17	HANAMANTH . KATAPUR	175	A	A	A	A	A	A	A	A	A	A
18	LAXMI . KAMAGOND	180	A	A	A	A	A	A	A	A	A	A
19	SUREKHA . GIRIGOUDAR	193	A	A	A	A	A	A	A	A	A	A
20	SHIVAKUMAR . PARE	226	A	A	A	A	A	A	A	A	A	A
21	SHARADA . SATHAL	246	A	A	A	A	A	A	A	A	A	A
22	SIDDARAMESHWARA . MURAGUNDI	270	A	A	A	A	A	A	A	A	A	A
23	MALLESH . TORVI	274	A	A	A	A	A	A	A	A	A	A
24	POOJA . GIDADAMANI	320	A	A	A	A	A	A	A	A	A	A
25	SHRUTI . MATHAPATI	359	A	A	A	A	A	A	A	A	A	A
26	VINOD . TENGALÉ	363	A	A	A	A	A	A	A	A	A	A
27	AKASH . MADIWALAR	380	A	A	A	A	A	A	A	A	A	A
28	VINAYAK . LALAGE	381	A	A	A	A	A	A	A	A	A	A
29	NAMRATA . SOUTI	385	A	A	A	A	A	A	A	A	A	A
30	PRAMA . PATHI	386	A	A	A	A	A	A	A	A	A	A
31	BHARATI . SANAMAGOND	387	A	A	A	A	A	A	A	A	A	A
32	SANJEEV . ALLIGIDA	393	A	A	A	A	A	A	A	A	A	A
33	BHAGAVANTRAY . HANGARAGI	398	A	A	A	A	A	A	A	A	A	A
34	MASIDDA . NIRVANI	400	A	A	A	A	A	A	A	A	A	A
35	PRAVEEN . SALI	106	A	A	A	A	A	A	A	A	A	A
36	VIJAY . RATHOD	110	A	A	A	A	A	A	A	A	A	A

*See J*  
H.O.D.

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Department of Statistics  
For the Academic Year : 2018 – 19  
Value - added course


## NOTICE

This is to inform all the student of Bsc Statistics that the "Value added training Course on R-Programming " Exam will be conducted on 27-09-2018 . So the students have to attend the Exam at 9am in Room No 10.

  
H.O.D.

Department of Statistics  
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**SBAKCPSC/ BSc V SEM/STATISTICS/ Value Added Course Test 2018-19**

**Time : 3 Hours**

**Marks : 60**

**PART-A**

Answer the following questions.

4 X 5 =20

1. Write the low level plotting functions used in R.
2. Write the statistical probability functions used in R.
3. Mention the functions which are used to find help in R.
4. Write the built-in functions used in R.
5. What is R script.

**PART-B**

Answer the following questions.

5 X 4 = 20


1. What are the types of R objects
2. Mention any two arithmetic operators in R.
3. Mention any two logical operators in R.  
What is meant by Vectors.
4. Write the arguments to plot functions used in R.


**PART-C**


Answer the following questions.

10 X 2 = 20

5. Write a note on operators in R.
6. Write a note on standard plot functions in R.

  
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Department of Statistics  
Result for Value - added course 2018 – 19

Sl No	Name	Roll No	Marks for Theory (out of 60)	Marks for Practical (out of 40)	Total Marks	Grade
1	POOJA .GIDARAMAN	12	55	38	93	A
2	BHARATI .SANAMAGOND	32	53	37	90	A
3	MEENAL .BASUTKAR	40	45	35	80	B
4	SUSHMITA .KULKARNI	41	49	38	87	A
5	ROOPASHREE .BYAKOD	45	49	38	87	A
6	SHILPA .NAGOLI	78	50	36	86	A
7	NAMRATA .SCUDI	83	55	38	93	A
8	POOJA .KAMBLE	98	58	34	92	A
9	SOUMYA .BASHETTI	99	59	39	98	A
10	PRAMILA .ATHANI	107	57	40	97	A
11	SUNEETA .HOSATHI	108	58	38	96	A
12	DEEPA .BIRADAR	112	45	39	84	B
13	RANI .KOLI	113	45	38	83	B
14	LAXMI .KAMAGOND	114	57	33	90	A
15	SHRUTI .MAHAPATI	128	43	35	78	B
16	VINOD .TENGALI	136	35	38	73	B
17	PALLAVI .KULKARNI	189	55	38	93	A
18	SUREKHA .GIRIGUDAR	203	55	32	87	A
19	SUJATA .KAMANAKERI	209	36	30	66	C
20	SANJEEV .ALLIGIDA	255	46	35	81	B
21	AKASH .MADIWALAR	269	47	33	80	B
22	MASIDDA .NIRVANI	288	48	35	83	B
23	VINAYAK .LALAGE	303	49	34	83	B
24	SAVITRI .BADIGER	313	46	25	71	B
25	PREMA .PATHI	335	44	36	80	B
26	POOJA .GALAGALI	339				
27	ASHWINI .KOLI	340	43	25	68	C

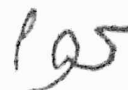
Grade: A- (85-100), B- (70-85), C-(55-70), D- (40-55)

  
H.O.D.

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IQAC, Co-ordinator

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B. L. D. E. Association's

**S.B. ARTS & K.C.P. SCIENCE COLLEGE, VIJAYAPUR**

(Re-Accredited by NACC at 'A' Level in 3<sup>rd</sup> Cycle)

Internal Quality Assurance Cell Initiative

**VALUE ADDED COURSE**

*Certificate*



This is to certify that Mr./Ms. Meenal. Basetkar

has Completed the Value Added Course on "R. Programming"


Conducted by the Department of Statistics during the

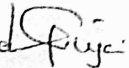
Year 2018-19

  
Head of the Department

  
IQAC, Co-ordinator  
S.B.Arts & K.C.P.Science College,  
Vijayapur.

  
Co-Ordinator, IQAC

  
Principal,  
S.B. Arts and KCP Science College,  
VIJAYAPUR

  
Principal



B. L. D. E. Association's

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Internal Quality Assurance Cell Initiative

## VALUE ADDED COURSE

### Certificate



This is to certify that Mr./Ms. Sushmita. Kulkarni

has Completed the Value Added Course on "R- Programming"

Conducted by the Department of Statistics during the

Year 2018-19

  
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**IQAC, Co-ordinator**

  
**Co-Ordinator, IQAC**

  
**Principal,**  
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Internal Quality Assurance Cell Initiative  
**VALUE ADDED COURSE**

*Certificate*

This is to certify that Mr./Ms. Sujata Kamanakeri  
has Completed the Value Added Course on "R- Programming"  
Conducted by the Department of Statistics during the  
Year 2018-19

  
IQAC, Co-ordinator  
S.B. Arts & K.C.P. Science College,  
Vijayapur. Co-Ordinator, IQAC

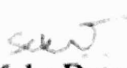
  
Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR

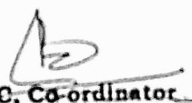
  
Principal





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**VALUE ADDED COURSE**  
*Certificate*

This is to certify that Mr./Ms. Ashwini. Koli  
has Completed the Value Added Course on "R-Programming"  
Conducted by the Department of Statistics during the  
Year 2018-19

  
Head of the Department

  
IQAC, Co-ordinator  
S.B. Arts & K.C.P. Science College,  
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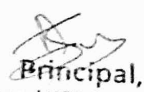
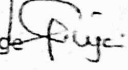
Internal Quality Assurance Cell Initiative

**VALUE ADDED COURSE**

*Certificate*

This is to certify that Mr./Ms. Pooja - Galagali  
has Completed the Value Added Course on "R-Programming"  
Conducted by the Department of Statistics during the  
Year 2018-19

  
Head of the Department  
IQAC, Co-ordinator  
S.B.Arts & K.C.P.Science College,  
Vijayapur. Co-Ordinator, IQAC

  
Principal,  
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Principal



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DEPARTMENT OF STATISTICS

The Value Added Course Relevance to Main Course

The Value Added Course in our department is on the topic entitled "R-programming". R is a language used for statistical computations, data analysis and graphical representation of data. R was designed as a statistical platform for data cleaning, analysis and representation. This is useful for the students for their higher studies and also for the carrier in software field.

  
H.O.D.

Department of Statistics  
BLDEA's S. B. Arts & K.C.P.  
Sci. College, Vijayapur.



**IQAC, Co-ordinator**  
S.B.Arts & K.C.P.Science College, S.B.Arts and KCP Science College  
Vijayapur.



**Principal,**  
S.B.Arts and KCP Science College  
VIJAYAPUR.