



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
BLDE New Campus, Shri B. M. Patil Road, Vijayapur-586103
Accredited with CGPA of 2.99 at 'B' Grade in 4th Cycle by NAAC
(Affiliated to Rani Channamma University, Belagavi)
Website: www.bldeasbkcp.ac.in E-mail: bldeasbkcp@gmail.com



DEPARTMENT OF STATISTICS

VALUE ADDED COURSE

ON

“STATISTICAL ORIENTED R- PROGRAMMING”

2023 – 2024

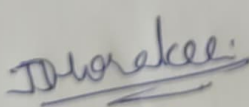
Course Code: 23UGVASAT06

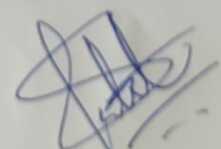
Course Co-ordinator: Smt.Jayashree.D.Horakeri

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S.B.ARTS AND KCP SCIENCE COLLEGE, VIJAYAPUR
DEPARTMENT OF STATISTICS
Value Added Course on Statistical Oriented R-Programming

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HOD
Department of Statistics
BLDEA's S. B. Arts & K.C.P.
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Date : 16/11/2023

To
The Principal
S.B.Arts and K.C.P Science College Vijayapur

Subject: Permission for conducting value added course in Statistics Department
(Statistical Oriented R-Programming) for B.Sc VI semester students.

Respected Madam,

We are planning to conduct value added course entitled "Statistical Oriented R-Programming" for our B.Sc VI Sem students. The course will be benefitting the students. Here with, we kindly request you to grant permission for conducting for the same.

Objective : To provide additional learners- centric graded skill oriented technical training with primary objectives of improving the employability skill.

Outcome: At the end of the course the student will be able to understand and design the statistical tools using R-Programming.

Name of the department : Statistics

Title of the course : Statistical Oriented R-Programming

Course code : 23UGVASAT06

Semester : VI Sem

Duration of the Course : 30 Hours

Course Coordinator : Smt. Jayashree .D. Horakeri

Type of Assessment : Theory 50 marks

Thanking you,

H.O.D.

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

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Principal

Principal,
S.B.Arts & KCP. Sc. College
Vijayapur.

B.L.D.E Association's
S.B.Arts and K.C.P. Science College, Vijayapur
Department of Statistics

The meeting of value added course committee for the academic year 2023- 2024 was held on 16/11/2023 in the Statistics department to discuss on the agenda.

The detail information about value added course was given below

Name of the department : Statistics
Title of the Course : Statistical Oriented R-Programming
Course Code : 23UGVASAT06
Semester : VI Sem
Duration of the Course : 30 Hours
Course Coordinator : Smt.Jayashree. D. Horakeri
Type of Assessment : Theory 50 Marks

The following value added course committee members were present.

I. INTERNAL MEMBERS

Sl. No	Name of the member	Designation	Signature
1	Dr. R.M.Mirdhe	Principal	
2	Dr. P.S.Patil	IQAC Coordinator	
3	Dr. Maheshkumar K	NAAC Coordinator	
4	Smt.Jayashree.D.Horakeri	Course Coordinator	<i>J.D. Horakeri</i>
5	Smt.Rajashree.Y.Madabhavi	Head of the Department of Statistics	<i>R. Madabhavi</i>

II. EXTERNAL MEMBERS

Sl. No	Name of the Member	Designation	Signature
1.	Saraswati. Natikar Assistant Professor Anjuman's Arts ,Science and Commerce College,Vijayapur	Member	<i>S. Natikar</i>

J.D. Horakeri
H.O.D.
Department of Statistics
BLDEA's S. B. Arts & K.C.P.
Sci. College, Vijayapur.

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

P. S. Patil
Principal
Principal,
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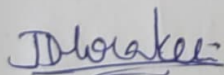


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Agenda :

- 1) To discuss about introduction of value added course for UG Statistics students.
- 2) Approval of the syllabus of the value added course
Proceeding
 - ❖ The meeting of value added course for the academic year 2023-2024 started at 11 am in the presence of principal.
 - ❖ The HOD of Statistics department welcomed all the members of value added course committee.
 - ❖ The meeting was started with the discussion of the agenda.
 - ❖ The meeting concluded with the approval of the syllabus of value added course for the B.Sc students.
 - ❖ The meeting was ended with vote of thanks by the chairman to all the Proceedings.


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Depart. HOD of Statistics
BLDEA's S. B. Arts & K.C.P.
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Value Added Course 2023-24
Syllabus for Statistical Oriented R – Programming

Subject Code: 23UGVASAT06

Total hours: 30

Unit 1: Introduction to R:

6 hrs

Introduction, Importance of R, Foot Steps in R, Help in R. Introductions to R installation, Packages in R, Operators in R : Arithmetic, Relational, Logical, Assignment and Miscellaneous Operators,

Unit 2: R – An advanced/overgrown calculator:

6 hrs

Built-in Functions in R : Numeric functions, Character functions, Statistical Probability functions, Data types, Data Structures and their types in R.

Unit 3: Diagrams and Graphics with R:

6 hrs

Standard plot functions, some Arguments to plot () function, High level plotting and Low level plotting functions, Saving plots, Control Structures and User defined functions in R.

Unit 4: Time Series Analysis using R:

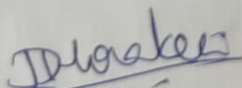
6 hrs

Uses of Time Series Analysis, Analyzing the time series, Decomposition of time series, Creating and Plotting a time series, Moving average.

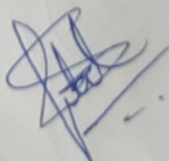
Unit 5: Non Parametric Analysis using R:

6 hrs

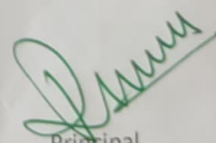
Median test, Mann Whitney U test, Wilcoxon sign rank test, One Sample t Test.


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Date : 17/05/2024

Department of Statistics

Value Added Course

Notice

It is informed that Value Added Course on "Statistical Oriented R-Programming" will be conducted from 01-06-2024 to 30-06-2024. Registration is open. So, interested students are asked to enroll your names for the above mentioned course as earlier as possible with the Course Coordinator at Statistics department.

Department : Statistics

Last Date of Registration : 24/05/2024

Course Coordinator : Smt. Jayashree.D. Horakeri

Email ID : j.horakeri@gmail.com

H.O.D.
Head of the Department
Department of Statistics
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Date : 17/05/2024

Department of Statistics

Value Added Course

Notice

It is here by informed that the "Value Added Course" (Statistical Oriented R-Programming) classes will commence from 01-06-2024 to 30-06-2024. For the academic year 2023-24 the classes will be conducted in statistics lab at 08.00 am.

Students those who are selected attend the classes regularly without fail.

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DEPARTMENT OF STATISTICS

Value Added Course 2023-24

Statistical Oriented R-Programming

List of Faculty

Sl No	Name of Faculty	No of classes Per Week
1.	Smt. J D Horakeri	4 hrs
2.	Smt. R Y Madabhavi	4 hrs

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Head of the Department
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DEPARTMENT OF STATISTICS

For the Academic Year: 2023-24

Students enrollment list for "VALUE ADDED TRAINING COURSE"

Subject: Statistical Oriented R- Programming

Class: BSc VI Sem

Sl No	Reg.No	Name
1	U15KM21S0069	RAVI K. MANAGULI
2	U15KM21S0071	MANOJ C. DINNI
3	U15KM21S0111	PREMA MAGADHARI
4	U15KM21S0138	NIRMALA YAMBATNAL
5	U15KM21S0170	VINOD C. NARASAREDDY
6	U15KM21S0183	MAAZ M. PENDARI
7	U15KM21S0221	HARIPRASAD KULKARNI
8	U15KM21S0312	LAXMESH R. KHYADI
9	U15KM21S0325	RAJESHWARI PUJARI
10	U15KM21S0344	MOUNESHWAR B. BADIGER
11	U15KM21S0358	SANGEETA S. KOLAKAR
12	U15KM21S0365	POOJA V. KOLAKAR
13	U15KM21S0419	SAHANA M. DHANASHETTI
14	U15KM21S0420	SAKSHI

D. D. D. D.

H.O.D.

Head of the Department
Department of Statistics
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[Signature]

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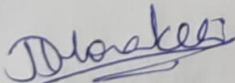
DEPARTMENT OF STATISTICS
Value Added Course Time Table

Statistical Oriented R – Programming
(Subject Code: 23UGVASAT06)

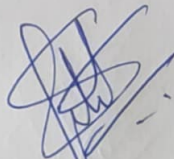
Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08.00 to 09.00		BSc VI Sem Stat Lab (JDH)		BSc VI Sem Stat Lab (RYM)		
08.00 to 09.30	BSc VI Sem Stat Lab (JDH)		BSc VI Sem Stat Lab (JDH)		BSc VI Sem Stat Lab(RYM)	BSc VI Sem Stat Lab(RYM)

Course Coordinator : Smt. Jayashree.D.Horakeri

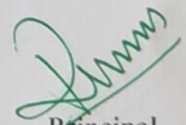
Faculty : Smt. Rajashree.Y.Madabhavi


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Head of the Department
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Principal



Date : 04/07/2024

Department of Statistics
For the Academic Year: 2023-24

NOTICE

This is to inform all the student of B.Sc Statistics, that the "Value added training Course on Statistical Oriented R-Programming" Exam will be conducted on 06-07-2024. So the students have to attend the Exam at 08.00 to 09.30 am.

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Department of Statistics
Value Added Course Test 2023-24

Sub: Statistical Oriented R- Programming (23UGVASAT06)

Sem: B.Sc-VI

Date: 06/07/2024

Marks : 50

Time : 1.30 Hour

PART-A

I. Answer any five the following questions.

2 X 5 = 10

1. Write the Importance of R.
2. Explain briefly on User defined functions in R.
3. Write about packages in R.
4. Write the footsteps in R.
5. Explain R is high- level programming language.
6. Write the test for equality of two means using R.

four
PART-B

II. Answer any five of the following questions.

5 X 4 = 20

7. Explain about data types in R.
8. Explain Built-in functions in R.
9. Explain operators in R.
10. Write the wilcoxon signed-rank test using R.
11. Analysis of time series using R.

PART-C

III. Answer any two the following questions.

10X 2 = 20

12. Explain the control structures in R.
13. Explain the data structures in R.
14. Analysis of one sample t test using R.

H.O.D.
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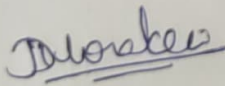


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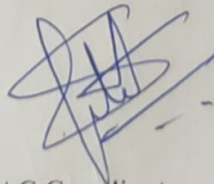


Department of Statistics
Result for Value added course 2023-24

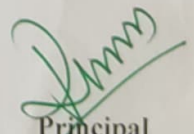
SL.NO	Reg. No.	Name of the Student	Marks
1	U15KM2IS0069	RAVI K. MANAGULI	46
2	U15KM2IS0071	MANOJ C. DINNI	38
3	U15KM2IS0111	PREMA MAGADHARI	48
4	U15KM2IS0138	NIRMALA YAMBATNAL	40
5	U15KM2IS0170	VINOD C. NARASAREDDY	36
6	U15KM2IS0183	MAAZ M. PENDARI	46
7	U15KM2IS0221	HARIPRASAD KULKARNI	46
8	U15KM2IS0312	LAXMESH R. KHYADI	39
9	U15KM2IS0325	RAJESHWARI PUJARI	38
10	U15KM2IS0344	MOUNESHWAR B. BADIGER	46
11	U15KM2IS0358	SANGEETA S. KOLAKAR	49
12	U15KM2IS0365	POOJA V. KOLAKAR	49
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14	U15KM2IS0420	SAKSHI	48



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DEPARTMENT OF STATISTICS

For the Academic Year : 2023-24

Students attendance list for "VALUE ADDED TRAINING COURSE"

Subject: Statistical Oriented R- Programming

Class: BSc VI Sem

Sl No	Name	Reg.No	1/6	3/6	4/6	5/6	7/6	8/6	10/6	11/6	12/6	13/6
1	RAVI K. MANAGULI	U15KM21S0069	1	2	3	4	5	6	7	7	8	9
2	MANOJ C. DINNI	U15KM21S0071	1	1	2	3	4	5	6	7	8	9
3	PREMA MAGADHARI	U15KM21S0111	1	2	3	4	5	6	7	8	8	9
4	NIRMALA YAMBATNAL	U15KM21S0138	1	2	3	3	4	5	6	7	8	8
5	VINOD C. NARASAREDDY	U15KM21S0170	1	2	2	3	3	4	5	6	7	7
6	MAAZ M. PENDARI	U15KM21S0183	1	2	3	4	4	5	6	7	8	9
7	HARIPRASAD KULKARNI	U15KM21S0221	1	2	3	4	5	6	7	7	8	9
8	LAXMESH R. KHYADI	U15KM21S0312	1	2	3	4	4	5	6	7	8	9
9	RAJESHWARI PUJARI	U15KM21S0325	1	2	3	4	5	6	7	8	9	9
10	MOUNESHWAR B. BADIGER	U15KM21S0344	1	2	3	4	5	6	7	8	9	10
11	SANGEETA S. KOLAKAR	U15KM21S0358	1	2	3	4	5	6	7	8	9	10
12	POOJA V. KOLAKAR	U15KM21S0365	1	2	2	3	4	5	6	7	8	9
13	SAHANA M. DHANASHETTI	U15KM21S0419	1	2	3	4	5	6	7	8	9	10
14	SAKSHI	U15KM21S0420	1	2	3	4	5	6	7	8	9	10
Faculty Signature			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]

H.O.D.
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 Sci. College, Vijayapur.

[Signature]

IQAC Coordinator
IQAC, Co-ordinator
 S.B.Arts & K.C.P.Science College,
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[Signature]

Principal
Principal,
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 (Affiliated to Rani Channamma University, Belagavi)
 Website: www.bldeasbkcp.ac.in E-mail: bldeasbkcp@gmail.com



DEPARTMENT OF STATISTICS

For the Academic Year : 2023-24

Students attendance list for "VALUE ADDED TRAINING COURSE"

Subject: Statistical Oriented R- Programming

Class: BSc VI Sem

Sl No	Name	Reg.No	14/6	15/6	18/6	19/6	20/6	21/6	22/6	24/6	25/6	26/6
1	RAVI K. MANAGULI	U15KM21S0069	10	11	12	13	14	15	16	17	18	19
2	MANOJ C. DINNI	U15KM21S0071	9	10	11	12	13	14	14	15	16	17
3	PREMA MAGADHARI	U15KM21S0111	10	11	12	13	14	15	16	17	18	19
4	NIRMALA YAMBATNAL	U15KM21S0138	9	10	11	12	13	13	13	14	15	16
5	VINOD C. NARASAREDDY	U15KM21S0170	8	9	10	11	12	13	13	13	14	15
6	MAAZ M. PENDARI	U15KM21S0183	10	11	11	12	13	14	15	15	15	16
7	HARIPRASAD KULKARNI	U15KM21S0221	10	11	12	13	14	15	16	17	17	18
8	LAXMESH R. KHYADI	U15KM21S0312	9	10	11	12	13	14	14	14	15	16
9	RAJESHWARI PUJARI	U15KM21S0325	10	11	12	12	13	14	15	16	17	17
10	MOUNESHWAR B. BADIGER	U15KM21S0344	11	12	13	13	14	15	16	17	18	19
11	SANGEETA S. KOLAKAR	U15KM21S0358	11	12	13	14	15	16	17	18	19	20
12	POOJA V. KOLAKAR	U15KM21S0365	10	11	12	13	14	15	16	17	18	19
13	SAHANA M. DHANASHETTI	U15KM21S0419	11	12	13	14	15	16	17	18	19	20
14	SAKSHI	U15KM21S0420	11	11	12	13	14	15	16	17	18	19
Faculty Signature												

H.O.D.
 Head of the Department
 Department of Statistics
 BLDEA's S. B. Arts & K.C.P.
 Sci. College, Vijayapur.

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

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S.B.Arts & KCP. Sc. College
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DEPARTMENT OF STATISTICS

For the Academic Year : 2023-24

Students attendance list for "VALUE ADDED TRAINING COURSE"

Subject: Statistical Oriented R- Programming

Class: BSc VI Sem

Sl No	Name	Reg.No	27/6	28/6	29/6														
1	RAVI K. MANAGULI	U15KM21S0069	20	20	21														
2	MANOJ C. DINNI	U15KM21S0071	17	18	19														
3	PREMA MAGADHARI	U15KM21S0111	20	21	22														
4	NIRMALA YAMBATNAL	U15KM21S0138	17	18	19														
5	VINOD C. NARASAREDDY	U15KM21S0170	15	15	16														
6	MAAZ M. PENDARI	U15KM21S0183	16	16	17														
7	HARIPRASAD KULKARNI	U15KM21S0221	19	20	21														
8	LAXMESH R. KHYADI	U15KM21S0312	16	16	17														
9	RAJESHWARI PUJARI	U15KM21S0325	18	19	19														
10	MOUNESHWAR B. BADIGER	U15KM21S0344	20	21	22														
11	SANGEETA S. KOLAKAR	U15KM21S0358	20	22	23														
12	POOJA V. KOLAKAR	U15KM21S0365	20	21	22														
13	SAHANA M. DHANASHETTI	U15KM21S0419	21	21	22														
14	SAKSHI	U15KM21S0420	20	21	22														
Faculty Signature			Rym	Rym	Rym														

[Signature]

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

[Signature]

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DEPARTMENT OF STATISTICS
Students Feedback
Value Added Course on Statistical Oriented R-Programming

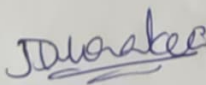
Date: 10-07-2024

Name:

UUCMS. No.

Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1.Course Contents and Relevance				
2.Organization and Conduction				
3. Trainers Expertise				
4. Usefulness of Course/ Skill Development				


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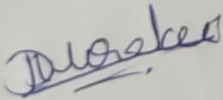
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S.B.ARTS AND KCP SCIENCE COLLEGE, VIJAYAPUR
DEPARTMENT OF STATISTICS

Value Added Course on Statistical Oriented R-Programming
2023-2024

Report on Course Outcome

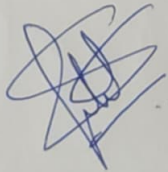
Report of Value Added Course

Name of the value added course : Statistical Oriented R-Programming
Course code : 23UGVASAT06
Course Coordinator of the VAC : Smt. Jayashree.D.Horakeri
Duration of the course : 01-06-2024 to 30-06-2024
No. of Hours of the course : 30 Hours
Total number of participants enrolled : 14
for VAC
Successfully Completed : 14
Type of Assessment : Descriptive (Theory 50 marks)



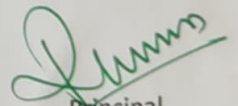
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IQAC coordinator

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Feedback Question Analysis

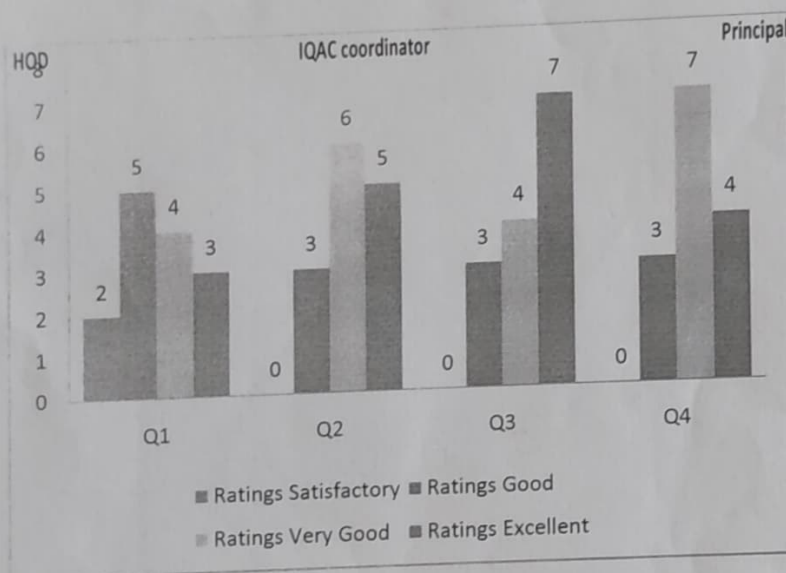
Question Asked

Q1. Course Contents and Relevance
Q2. Organization and Conduction
Q3. Trainers Expertise
Q4. Usefulness of Course / Skill Development

Ratings

1. Satisfactory
2. Good
3. Very Good
4. Excellent

Ratings \ Questions	1	2	3	4
Q1	2	5	4	3
Q2	0	3	6	5
Q3	0	3	4	7
Q4	0	3	7	4



D. Sankar
H.O.D.

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DEPARTMENT OF STATISTICS
Students Feedback

Value Added Course on R-Programming

Date: 10-07-2024

Name: Sangeeta S. Kolakar

UUCMS. No. U15KM21S0358

Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1.Course Contents and Relevance		✓		
2.Organization and Conduction				✓
3. Trainers Expertise			✓	
4. Usefulness of Course/ Skill Development				✓

Comments (If any):

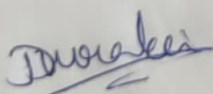
Name: Mouneshwar B. Badrger

UUCMS. No. U15KM21S0344

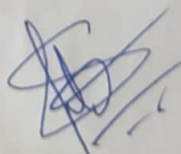
Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1.Course Contents and Relevance				✓
2.Organization and Conduction				✓
3. Trainers Expertise				✓
4. Usefulness of Course/ Skill Development			✓	

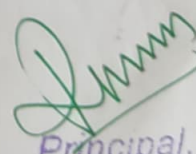
Comments (If any):


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DEPARTMENT OF STATISTICS
Students Feedback

Value Added Course on R-Programming

Date: 10-07-2024

Name: Sahana M. Dhanashetti

UUCMS. No. U15KM2150419

Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1.Course Contents and Relevance			✓	
2.Organization and Conduction				✓
3. Trainers Expertise			✓	
4. Usefulness of Course/ Skill Development			✓	

Comments (If any):

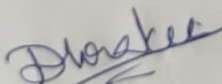
Name: Rajeshwari Pujari

UUCMS. No. U15KM2150325

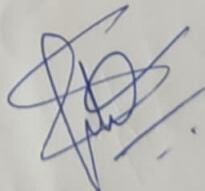
Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1.Course Contents and Relevance		✓		
2.Organization and Conduction			✓	
3. Trainers Expertise				✓
4. Usefulness of Course/ Skill Development			✓	

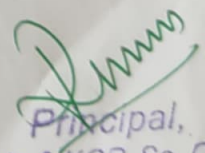
Comments (If any):


H.O.D.

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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

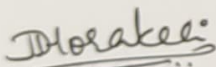
Certificate

This is to certify that Mr./Ms. Ravi. K. Managuli of B.Sc

Programme Studying VI Semester has completed the Value Added Course on

Statistical Oriented R- Programming Conducted by the Department

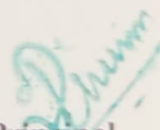
of Statistics during the Academic Year 2023-24



Head of the Department



IQAC Co-ordinator



Principal



B.L.D.E. Association's



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

(Re-Accredited by NACC at 'B++' level in 4th Cycle)

Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate

This is to certify that Mr./Ms. Prema . Magadhari of B.Sc
Programme Studying VI Semester has completed the Value Added Course on
Statistical Oriented R- Programming Conducted by the Department
of Statistics during the Academic Year 2023-24

D. Dorakee

Head of the Department

[Signature]

IQAC Co-ordinator

[Signature]

Principal