

**Value Added Course**

**“Certification Course in Data Analysis and Visualization “**

**July 10, 2019 to August 14, 2019**

**Conducted by- Department of Science**

**Faculty Name- Deepika Saxena**

## Value Added Course Data Analysis and Visualization Index

Sr. No	Particulars
1	Notice
2	Circular
3	Agenda & Minutes of Meeting
4	Notice For Value Added Courses
5	Circular For Value Added Course
6	Expected Outcome
7	Course Outcome
8	Syllabus and Assessments
9	Time Table/Schedule & Lesson Plan of the Classes
10	Application Form
11	List of students Enrolled
12	Sample Certificate
13	Attendance
14	Report on Value Added Course

Ref. No. SC/PAC/2019/01

Date: 05/07/2019

## NOTICE

It is to inform all the members of Program Academic Advisory Cell (PAC) that there will be a meeting on 09/07/2019 at 12.00 PM in Seminar Room to discuss about the various academic activities for the upcoming session. All concerned are requested to attend the meeting on time and be prepared to contribute to the discussion.



**Principal**

Ref. No. SC/PAC/2019/01

Date: 05/07/2019

## CIRCULAR

It is to inform all the members of Program Academic Advisory Cell (PAC) that there will be a meeting on 09/07/2019 at 12.00 PM in Seminar Room to discuss about the various academic activities for the upcoming session. All concerned are requested to attend the meeting on time and be prepared to contribute to the discussion.



**Principal**

## Meeting Minutes

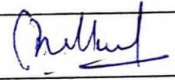
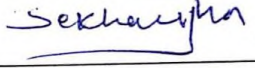
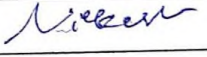
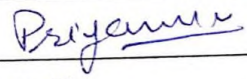

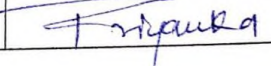
Date 09/07/2019

Time: 12:00 PM

Place: Seminar Room

### Attendees:

#### Attendees:

S. No.	Name	Designation	Signature
1.	Dr. Manisha Tiwari	Principal	
2.	Sekhar Jha	Head, Dept. of IT & Computer Science	
3.	Dr NIKESH JAIN	Head, Dept. of Commerce	
4.	Dr Priyamvada	Head, Dept. of Chemistry	
5.	Dr. Vinika Manglani	Head, Dept. of Physics	
6.	Dr. Priyanka Mishra	Head, Dept. of Arts	

### Agenda:

1. To organize Alumni, meet and farewell for the final year students.
2. To conduct student exit survey.
3. To discuss important questions for examination.
4. Soft skills training for placement and internship.
5. Analysis of slow learner and their mentoring.
6. To discuss about the conduction of practical examination.
7. Submission of dissertation and projects by students.
8. To organize seminars by all students.
9. To conduct remedial classes for weak learners on difficult topics on Saturdays.
10. To organize science exhibition, Panache, departmental quizzes, Industrial trips, surveys etc.
11. To organize Value added courses for next Semester Students

### Minutes:

Principal called the meeting to order at 12.PM in Seminar Room. The attendees were welcomed, and the agenda for the meeting was presented.

1. **To organize Alumni, meet and farewell for the final year students:** The Principal proposed organizing an Alumni meet to facilitate interactions between current students and successful graduates. The event will serve as an opportunity for networking, mentorship, and sharing experiences. Additionally, a farewell program will be arranged

2. **To conduct student exit survey:** The Principal suggested conducting a student exit survey to gather feedback from graduating students. The survey will focus on their overall college experience, including academic programs, infrastructure, faculty support, extracurricular activities, and placement opportunities. The feedback received will help in assessing the college's strengths and areas for improvement.
3. **To discuss important questions for examination:** The Principal highlighted the need to discuss and finalize the important questions for the upcoming University examination. Faculty members were encouraged to collaborate and share their expertise in determining the key topics and questions that students should focus on during their exam preparation. This will ensure that students are well-prepared for the examination.
4. **Soft skills training for placement and internship:** To enhance students' employability and prepare them for the professional world, the Principal proposed conducting soft skills training programs. These programs will focus on improving students' communication skills, teamwork abilities, time management, and overall personality development. The training will specifically target placement and internship opportunities, equipping students with the necessary skills to succeed in their future careers.
5. **Analysis of slow learners and their mentoring:** The Principal emphasized the importance of identifying and addressing the needs of slow learners. It was suggested to analyze the performance and progress of such students and provide them with personalized mentoring and support. Faculty members were requested to closely monitor the academic progress of slow learners and implement strategies to help them overcome their challenges.
6. **To discuss the conduction of practical examination:** The Principal proposed a discussion on the conduction of practical examinations. The logistics, evaluation criteria, and assessment procedures for the practical exams will be determined and communicated to the faculty members. It was emphasized that the practical examinations should provide a fair and comprehensive assessment of students' practical knowledge and skills.
7. **Submission of dissertations and projects by students:** The Principal reminded the faculty members about the submission deadline for dissertations and projects by the students. Clear instructions and guidelines regarding the format, content, and submission process should be provided to the students to ensure a smooth submission process.
8. **To organize seminars by final year students:** To showcase the research and academic achievements of the final year students, the Principal suggested organizing seminars where they can present their findings and share their knowledge with the college community. This will provide a platform for intellectual exchange and foster a culture of academic engagement.
9. **To conduct remedial classes for weak learners on difficult topics on Saturdays:** The Principal recommended organizing remedial classes on Saturdays to provide additional support to weak

learners. These classes will focus on addressing difficult topics and concepts, helping students overcome their challenges and improve their understanding. Faculty members were encouraged to volunteer and contribute to these remedial classes.

10. **To organize science exhibition, Panache, departmental quizzes, industrial trips, surveys, etc.:**  
The Principal proposed organizing various extracurricular activities and events, such as science exhibitions, cultural events like Panache, departmental quizzes, industrial trips, and surveys. These activities will provide students with opportunities for practical learning, creative expression, and holistic development.
11. **To organize Value added courses for Semester 2<sup>nd</sup> Students**  
The Principal elaborated on the importance of providing value-added courses to enhance the academic experience and skill set of students. Various suggestions were put forth regarding the types of value-added courses that could be beneficial for Semester 2<sup>nd</sup> students. Suggestions included courses related to communication skills, coding, financial literacy, and career development.

#### **Action Items:**

1. The Principal will coordinate with faculty members and student representatives to finalize the dates and details of the Alumni meet and farewell program.
2. Faculty members will develop and conduct the student exit survey, ensuring comprehensive feedback is collected.
3. Faculty members will collaborate to finalize important questions for the upcoming examination.
4. The administration will organize soft skills training programs, focusing on placement and internship opportunities.
5. Faculty members will identify slow learners, provide personalized mentoring, and monitor their progress.
6. Faculty members will discuss and plan the conduction of practical examinations, ensuring fairness and thorough assessment.
7. The administration will remind students about the submission deadline for dissertations and projects, providing clear guidelines.
8. The administration will facilitate the organization of seminars by final year students, allowing them to showcase their research and knowledge.
9. Faculty members will schedule remedial classes for weak learners on Saturdays, focusing on difficult topics.
10. The administration will coordinate the organization of science exhibitions, Panache, departmental quizzes, industrial trips, surveys, and other extracurricular activities.
11. The Academic Committee will compile a list of potential value-added courses based on the suggestions provided during the meeting.

These action items will be followed up on in subsequent meetings to track progress and ensure the successful implementation of the proposed agendas.

#### **Closing:**

Principal expressed gratitude to the staff members for their active participation and valuable input during the meeting. It was emphasized that their collaboration and dedication are essential in

implementing the discussed agendas successfully. The staff members were encouraged to further develop and refine these proposals and work collectively towards the holistic development of the students.

The meeting concluded at 02.00 PM. The next meeting will be scheduled and communicated to the committee members accordingly.



**Principal**



Date- 06/07/2019

## Notice

We are pleased to inform all the students that the Value Added Course (VAC) - **Data Analysis and Visualization** classes will commence from **July 10, 2019**. This course is designed to provide additional skills and knowledge beyond the regular curriculum, enhancing your learning experience and improving your career prospects.

### Details of the VAC Classes:

Start Date: **July 10, 2019**

Timings: 3:00 PM to 4:00 PM (Monday to Saturday)

Faculty Coordinator- Deepika Saxena



**Principal**

CC-

HOD of all departments

Date- 08/07/2019

## Circular


We are pleased to inform all the students that the Value Added Course (VAC) - **Data Analysis and Visualization** classes will commence from **July 10, 2019**. This course is designed to provide additional skills and knowledge beyond the regular curriculum, enhancing your learning experience and improving your career prospects.

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**Principal**

CC-  
HOD of all departments

## **Value Added Course: Data Analysis and Visualization**

### **Expected Outcomes:**

#### **On completion of the course, student will be able to-**

- Participants will learn key concepts of data analysis and visualization in this workshop.
- Participants will engage in hands-on activities to enhance their understanding of business analytics.
- Participants will be provided with study materials to help them prepare for the certification exam.
- Participants will collaborate in teams to solve real-world data analysis problems.
- Participants will develop their skills in using tools like Excel, Python, and Tableau for data visualization.
- Participants will receive feedback on their data-driven presentations to improve communication skills.
- Participants will explore various types of data visualizations such as bar charts, scatter plots, and heatmaps.
- Participants will be able to interact with industry experts during Q&A sessions.
- Participants will gain a deeper understanding of how to interpret complex data sets.
- Participants will receive a certificate of completion after successfully finishing the course.

## Value Added Course: Data Analysis and Visualization

### COURSE OUTCOMES

Subject	Data Analysis and Visualization
CO1	Understand and apply basic statistical techniques for data analysis.
CO2	Utilize software tools to analyze and visualize data.
CO3	Interpret and communicate data findings effectively.

# Value Added Course Data Analysis and Visualization

(July 10, 2019 to August 14, 2019)

## Syllabus

### Module 1: Introduction to Data Analysis

- **Lecture 1:** Overview of Data Analysis
- **Lecture 2:** Types of Data and Data Collection Methods
- **Lecture 3:** Descriptive Statistics (Mean, Median, Mode, Variance, Standard Deviation)
- **Lecture 4:** Introduction to Probability Distributions

### Module 2: Statistical Techniques

- **Lecture 5:** Hypothesis Testing and Confidence Intervals
- **Lecture 6:** Correlation and Regression Analysis
- **Lecture 7:** ANOVA (Analysis of Variance)
- **Lecture 8:** Chi-Square Tests and Non-parametric Methods

### Module 3: Data Visualization Tools and Techniques

- **Lecture 9:** Introduction to Data Visualization Tools (Excel, R, Python)
- **Lecture 10:** Creating and Interpreting Charts and Graphs
- **Lecture 11:** Advanced Visualization Techniques (Heat Maps, Scatter Plots, Histograms)
- **Lecture 12:** Interactive Data Visualization with Dashboards

### Module 4: Practical Applications and Case Studies

- **Lecture 13:** Data Cleaning and Preparation
- **Lecture 14:** Case Study: Analyzing Real-world Data
- **Lecture 15:** Developing a Data-Driven Report
- **Lecture 16:** Presentation Skills and Techniques for Data Insights

### Module 5: Project Work and Review

- **Lecture 17:** Project Guidelines and Requirements
- **Lecture 18:** Working on Data Analysis Projects
- **Lecture 19:** Project Presentation and Feedback

- **Lecture 20:** Course Review and Future Directions

### **Assessment and Evaluation:**

- **Assignments:** Regular assignments based on each module (30%)
- **Practical Work:** Hands-on exercises and case studies (20%)
- **Project:** Data analysis project with a report and presentation (30%)
- **Exams:** Mid-term and final exams (20%)

### **Learning Resources:**

#### **Textbooks:**

- "Data Analysis for Business Decisions" by Duane J. Ireland and Michael A. Hitt
- "Python Data Science Handbook" by Jake VanderPlas

#### **Online Resources:**

- Khan Academy: Statistics and Probability
- Coursera or edX: Data Analysis and Visualization Courses

#### **Software Tools:**

- Microsoft Excel
- R Programming Language
- Python with libraries such as Pandas, Matplotlib, Seaborn

**Time Table**  
**Data Analysis and Visualization**

Date: 09/07/2019

<b>Days</b>	<b>Subject</b>	<b>Time</b>
Monday	Data Analysis and Visualization	03:00-04:00PM
Tuesday	Data Analysis and Visualization	03:00-04:00PM
Wednesday	Data Analysis and Visualization	03:00-04:00PM
Thursday	Data Analysis and Visualization	03:00-04:00PM
Friday	Data Analysis and Visualization	03:00-04:00PM
Saturday	Data Analysis and Visualization	03:00-04:00PM



**PRINCIPAL**

Copy to:

- Vice Principal
- HOD's of all Departments

## Lesson Plan Data Analysis and Visualization

Unit	Topic	Weekdays	Allotment
Unit-I	Definition and importance of data analysis Types of data (structured vs unstructured) Overview of the data analysis process	Monday-Saturday	03:00-04:00PM
Unit-I	Methods of data collection (surveys, databases, APIs) Types of data sources (primary, secondary) Ethical considerations in data collection	Monday-Saturday	03:00-04:00PM
Unit-II	Purpose and objectives of exploratory analysis Descriptive statistics (mean, median, mode, standard deviation)	Monday-Saturday	03:00-04:00PM
Unit-II	Visualizing distributions (histograms, box plots) Identifying outliers and anomalies Visualizing relationships (scatter plots, correlation matrices)	Monday-Saturday	03:00-04:00PM
Unit-III	Importance of visualization in data analysis Principles of effective data visualization (clarity, simplicity)	Monday-Saturday	03:00-04:00PM
Unit-III	Overview of visualization tools (Excel, Tableau, Power BI, Python libraries) Introduction to Matplotlib, Seaborn, and Plotly for Python Using dashboards for data presentation	Monday-Saturday	03:00-04:00PM
Unit-IV	Grouping data and performing aggregate functions (sum, count, average) Pivot tables and cross-tabulations for summarizing data	Monday-Saturday	03:00-04:00PM
Unit-IV	Clustering and classification Anomaly detection and pattern recognition Using machine learning algorithms in data analysis	Monday-Saturday	03:00-04:00PM
Unit-V	Importance of storytelling in data visualization Structuring a data-driven narrative for presentations	Monday-Saturday	03:00-04:00PM
Unit-V	Building dynamic dashboards (Power BI, Tableau) Creating reports for different audiences (technical vs non-technical) Publishing and sharing visual insights	Monday-Saturday	03:00-04:00PM



## Assessment: Data Analysis and Visualization

### Question Paper

#### **Instructions:**

- Answer all questions.
- Each question carries 10 marks.

Answer all questions.

Use appropriate software tools where necessary.

Show all workings for calculations.

#### **Part A: Theory (40%)**

##### **1. Descriptive Statistics**

- Explain the importance of descriptive statistics in data analysis. (5 marks)
- Calculate the mean, median, mode, variance, and standard deviation for the following dataset: [4, 8, 6, 5, 3, 7, 9]. (10 marks)

##### **2. Probability Distributions**

- Describe the difference between normal and binomial distributions. (5 marks)
- Given a dataset, how would you determine the appropriate probability distribution to use? (5 marks)

##### **3. Visualization Techniques**

- Discuss the advantages of using heat maps and scatter plots for data visualization. (5 marks)
- Explain how interactive dashboards can enhance data presentation. (5 marks)

#### **Part B: Practical (40%)**

##### **1. Data Cleaning and Preparation**

- Perform data cleaning on a provided dataset (CSV file) and prepare it for analysis. (10 marks)
- Identify and correct any inconsistencies in the dataset. (10 marks)

##### **2. Visualization**

- Using Excel or Python, create a chart that best represents the data provided. (10 marks)
- Interpret the chart and provide insights based on the visualization. (10 marks)

#### **Part C: Project (20%)**

- Data Analysis Project
- Submit a report on a data analysis project, including data cleaning, analysis, and visualization. (10 marks)

## Result Analysis: Data Analysis and Visualization

S. No.	Class	Name	Q1 (10)	Q2 (10)	Q3 (10)	Q4 (10)	Q5 (10)
1	B.A. I	ANKIT SHARMA	10	10	10	8	9
2	B.A. II	DIGVIJAY SINGH TANWAR	8	10	8	9	8
3	B.A. II	VINAY VYAS	9	9	10	8	7
4	B.A. II	MS POOJA BHATI	7	7	9	7	10
5	B.A. II	MAHESH JANGID	9	7	10	10	9
6	B.A. III	DEVANSHU SHARMA	10	7	7	8	9
7	B.Com I	RISHABH JAIN	8	10	8	8	8
8	B.Com I	MS SNEHA AGARWAL	9	8	7	8	10
9	B.SC HONS I	KUNAL SINGH	10	8	7	8	7
10	B.SC HONS II	KARTIK KUMAR	9	9	10	9	10
11	B.SC HONS II	VINAY KUMAR SEVDA	8	7	7	9	9
12	B.SC HONS III	TEJVEER KUNTAL	8	7	10	8	10
13	B.SC HONS III	HARISH KUMAR	7	8	8	9	8
14	B.SC HONS III	ARSHDEEP SINGH	8	9	8	9	7
15	B.SC I	DEEPALI KARWA	9	10	10	9	8
16	B.SC I	VISHAKHA SHARMA	10	7	7	7	10
17	B.Sc II	GUNGUN KAUSHIK	10	9	8	7	8
18	B.Sc II	SALONI GARG	9	10	9	8	8
19	B.Sc III	VASHU	10	9	10	8	9
20	B.Sc III	KHUSHWANT SINGH SOLANKI	9	8	8	7	7
21	B.V.A. 4th APPLIED	RAKSHA CHATURVEDI	10	7	7	10	8
22	B.V.A. 4th APPLIED	DAMINI GROVER	10	9	7	10	9
23	B.V.A. 4th PAINTING	NITIN SONI	10	7	8	7	7
24	BBA 1st	SUNIL CHOUDHARY	9	9	9	9	8
25	BBA 1st	NILAY RAI	8	8	9	8	8
26	BBA 1st	DEEPANSHU SINGH	9	10	9	8	8
27	BBA 1st	PRADEEP SINGH BHATI	8	7	10	8	7
28	BBA 2nd A	MS SANSKRITI DADHEECH	10	7	8	8	8
29	BBA 2nd A	ABHISHEK SINGH	8	7	9	7	9
30	BBA 3rd A	LAKSHYA ANAND	10	8	10	8	7
31	BCA 1st	MS POOJA SHARMA	8	7	10	9	8
32	BCA 1st	MS NIDHI SHARMA	7	9	9	7	7
33	BCA 1st	SACHIN PAL JADOUN	9	7	10	10	10
34	BCA 1st	BHUPENDER KUMAR	8	7	10	9	7
35	BCA 2nd	AJAY SONI	9	10	8	8	7

**APPLICATION FORM**

**Add On Course:-" Data Analysis and Visualization"**

**July 10, 2019 to August 14, 2019**

**Student's Name** : .....  
**Father's Name** : .....  
**Class** : .....  
**Percentage of Marks obtained in Last Qualifying Examination:** .....  
**Date of Admission in this Institution:** .....  
**Phone No.** : .....  
**Mobile** : .....

**DETAILS OF ADD ON COURSES**

**Parent's Signature:** .....

**Student's Signature:** .....

**Date:**

**Date:**

**Reference**

**Signature of Counsellor:** .....

**Name of Counsellor**

: .....

**Remarks of Counsellor**

: .....

**Remarks of Principal**

: .....

## Certification Course in Data Analysis and Visualization

July 10, 2019 to August 14, 2019

### Enrolled List: -

Sr.	Name of Student	Class
1	ANKIT SHARMA	B.A. I
2	DIGVIJAY SINGH TANWAR	B.A. II
3	VINAY VYAS	B.A. II
4	MS POOJA BHATI	B.A. II
5	MAHESH JANGID	B.A. II
6	DEVANSHU SHARMA	B.A. III
7	RISHABH JAIN	B.Com I
8	MS SNEHA AGARWAL	B.Com I
9	KUNAL SINGH	B.SC HONS I
10	KARTIK KUMAR	B.SC HONS II
11	VINAY KUMAR SEVDA	B.SC HONS II
12	TEJVEER KUNTAL	B.SC HONS III
13	HARISH KUMAR	B.SC HONS III
14	ARSHDEEP SINGH	B.SC HONS III
15	DEEPALI KARWA	B.SC I
16	VISHAKHA SHARMA	B.SC I
17	GUNGUN KAUSHIK	B.Sc II
18	SALONI GARG	B.Sc II
19	VASHU	B.Sc III
20	KHUSHWANT SINGH SOLANKI	B.Sc III
21	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED
22	DAMINI GROVER	B.V.A. 4th APPLIED
23	NITIN SONI	B.V.A. 4th PAINTING
24	SUNIL CHOUDHARY	BBA 1st
25	NILAY RAI	BBA 1st
26	DEEPANSHU SINGH	BBA 1st
27	PRADEEP SINGH BHATI	BBA 1st
28	MS SANSKRITI DADHEECH	BBA 2nd A
29	ABHISHEK SINGH	BBA 2nd A
30	LAKSHYA ANAND	BBA 3rd A
31	MS POOJA SHARMA	BCA 1st
32	MS NIDHI SHARMA	BCA 1st
33	SACHIN PAL JADOUN	BCA 1st
34	BHUPENDER KUMAR	BCA 1st
35	AJAY SONI	BCA 2nd

**Certification Course in Data Analysis and Visualization**

July 10, 2019 to August 14, 2019

**Attendance List: -**

Sr.	Name	Class	Day							
			Date	12/08/19	12/8/19	14/8/19	16/8/19	17/8/19	19/8/19	20/8/19
1.	ANKIT SHARMA	B.A. I	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
2.	DIGVIJAY SINGH TANWAR	B.A. II	D	D	D	D		D	D	D
3.	VINAY VYAS	B.A. II	V	V	V	V	V	V	V	V
4.	MS POOJA BHATI	B.A. II	P	P	P	P		P	P	P
5.	MAHESH JANGID	B.A. II	M	M	M	M	M			M
6.	DEVANSHU SHARMA	B.A. III	Devanshu	Devanshu	Devanshu	Devanshu	Devanshu	Devanshu	Devanshu	Devanshu
7.	RISHABH JAIN	B.Com I	R	R	R	R		R	R	R
8.	MS SNEHA AGARWAL	B.Com I	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha
9.	KUNAL SINGH	B.SC HONS I	K	K	K	K	K	K	K	K
10.	KARTIK KUMAR	B.SC HONS II	K		K	K	K	K	K	K
11.	VINAY KUMAR SEVDA	B.SC HONS II	V	V	V	V	V	V	V	V

12.	TEJVEER KUNTAL	B.SC HONS III	Tej	Tej	Tej	Tej	Tej	Tej	Tej
13.	HARISH KUMAR	B.SC HONS III	Hanish	Hanish	Hanish	Hanish	Hanish	Hanish	Hanish
14.	ARSHDEEP SINGH	B.SC HONS III	A	A	A	A	A	A	A
15.	DEEPALI KARWA	B.SC I	Deep	Deep	Deep	Deep	Deep	Deep	Deep
16.	VISHAKHA SHARMA	B.SC I	Vish	Vish	Vish	Vish	Vish	Vish	Vish
17.	GUNGAN KAUSHIK	B.Sc II	Cungun	Cungun	Cungun	Cungun	Cungun	Cungun	Cungun
18.	SALONI GARG	B.Sc II	Salay	Salu	Salay	Salay	Salar		Salay
19.	VASHU	B.Sc III	V	V	V	V	V	V	V
20.	KHUSHWANT SINGH SOLANKI	B.Sc III	K	K	K	K	K	K	K
21.	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED	Raksha	Raksh	Raksh	Raksha	Raksh	Raksh	Raksh
22.	DAMINI GROVER	B.V.A. 4th APPLIED	Dam	Dam	Dam	Dam	Dam	Dam	Dam
23.	NITIN SONI	B.V.A. 4th PAINTING	Nitin	Nitin	Nitin	Nitin	Nitin		Nitin
24.	SUNIL CHOUDHARY	BBA 1st	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	

25.	NILAY RAI	BBA 1st	nilay	nilay	nilay	nilay	nilay	nilay	
26.	DEEPANSHU SINGH	BBA 1st	D	D	D	D	D	D	D
27.	PRADEEP SINGH BHATI	BBA 1st	P	P	P	P	P	P	P
28.	MS SANSKRITI DADHEECH	BBA 2nd A	Sans	Sans	Sans	Sans	Sans	Sans	Sans
29.	ABHISHEK SINGH	BBA 2nd A	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
30.	LAKSHYA ANAND	BBA 3rd A	Lakshya	Lakshya	Lakshya	Lakshya	Lakshya	Lakshya	Lakshya
31.	MS POOJA SHARMA	BCA 1st	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
32.	MS NIDHI SHARMA	BCA 1st	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
33.	SACHIN PAL JADOUN	BCA 1st	S	S	S	S	S	S	S
34.	BHUPENDER KUMAR	BCA 1st	B	B	B	B	B	B	B
35.	AJAY SONI	BCA 2nd	Ajay	Ajay	Ajay	Ajay	Ajay		Ajay



Sr.	Name	Class	Day							
			Date	3/8/19	5/8/19	6/8/19	7/8/19	8/8/19	9/8/19	10/8/19
1.	ANKIT SHARMA	B.A. I		ANKIT	ANKIT	ANKIT		ANKIT	ANKIT	ANKIT
2.	DIGVIJAY SINGH TANWAR	B.A. II		D	D	D	D		D	D
3.	VINAY VYAS	B.A. II		V	V	V	V		V	V
4.	MS POOJA BHATI	B.A. II		P	P	P	P	P	P	P
5.	MAHESH JANGID	B.A. II		MAHESH	MAHESH	MAHESH	MAHESH	MAHESH	MAHESH	MAHESH
6.	DEVANSHU SHARMA	B.A. III		DEVANSHU	DEVANSHU		DEVANSHU	DEVANSHU	DEVANSHU	DEVANSHU
7.	RISHABH JAIN	B.Com I		R	R	R	R	R	R	R
8.	MS SNEHA AGARWAL	B.Com I		SNEHA	SNEHA	SNEHA		SNEHA	SNEHA	SNEHA
9.	KUNAL SINGH	B.SC HONS I		KUNAL	KUNAL	KUNAL	KUNAL	KUNAL	KUNAL	KUNAL
10.	KARTIK KUMAR	B.SC HONS II		K	K	K	K	K	K	K
11.	VINAY KUMAR SEVDA	B.SC HONS II		V	V	V	V	V	V	V

12.	TEJVEER KUNTAL	B.SC HONS III	Tej	Tej		Tej	Tej	Tej	Tej
13.	HARISH KUMAR	B.SC HONS III	Harish	Harish	Harish	Harish	Harish	Harish	Harish
14.	ARSHDEEP SINGH	B.SC HONS III	A	A	A	A	A		A
15.	DEEPALI KARWA	B.SC I	Deep	Deep	Deep	Deep.	Deep	Deep.	Deep.
16.	VISHAKHA SHARMA	B.SC I	V	V	V	V	V	V	V
17.	GUNGAN KAUSHIK	B.Sc II	Gungam	Gungam	Gungam		Gungam	Gungam	Gungam
18.	SALONI GARG	B.Sc II	Salan	Salan	Salan	Salan	Salan	Salan	Salan
19.	VASHU	B.Sc III	V	V	V	V	V	V	
20.	KHUSHWANT SINGH SOLANKI	B.Sc III	H	H	H	H	H	H	H
21.	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED	Raksha	Raksha	Raksha	Raksha	Raksha	Raksha	Raksha
22.	DAMINI GROVER	B.V.A. 4th APPLIED	Damini	Damini	Damini	Damini	Damini	Damini	Damini
23.	NITIN SONI	B.V.A. 4th PAINTING	Nitin	Nitin	Nitin		Nitin	Nitin	Nitin
24.	SUNIL CHOUDHARY	BBA 1st	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil

25.	NILAY RAI	BBA 1st	nilay	nilay	nilay		nilay	nilay	nilay
26.	DEEPANSHU SINGH	BBA 1st	Deep	DO	Deep	Des	De	Dee	Dee
27.	PRADEEP SINGH BHATI	BBA 1st	P	P	P	P	P	P	P
28.	MS SANSKRITI DADHEECH	BBA 2nd A	Sans	Sans	Sans	Sas	Sas	Sas	Sas
29.	ABHISHEK SINGH	BBA 2nd A	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek		Abhishek
30.	LAKSHYA ANAND	BBA 3rd A	Lak	Lak	Lak	Lak	Lak	Lak	Lak
31.	MS POOJA SHARMA	BCA 1st	Pooja	Pooja	Pooja	Pooja		Pooja	Pooja
32.	MS NIDHI SHARMA	BCA 1st	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
33.	SACHIN PAL JADOUN	BCA 1st	S	S	S	S	S	S	S
34.	BHUPENDER KUMAR	BCA 1st	B	B	B	B	B	B	B
35.	AJAY SONI	BCA 2nd	Ajay	Ajay	Ajay	Ajay	Ajay		Ajay

Sr.	Name	Class	Day							
			Date	18/7/19	19/7/19	20/7/19	22/7/19	22/7/19	24/7/19	25/7/19
1.	ANKIT SHARMA	B.A. I		Ankit	Ankit		Ankit	Ankit	Ankit	Ankit
2.	DIGVIJAY SINGH TANWAR	B.A. II		D	D	D		D		D
3.	VINAY VYAS	B.A. II		V	V	V	V	V	V	V
4.	MS POOJA BHATI	B.A. II		P	P	P	P	P	P	P
5.	MAHESH JANGID	B.A. II		M	M	M	M	M	M	M
6.	DEVANSHU SHARMA	B.A. III		D	D	D	D	D	D	D
7.	RISHABH JAIN	B.Com I		R	R	R	R	R	R	R
8.	MS SNEHA AGARWAL	B.Com I		S	S	S	S	S		S
9.	KUNAL SINGH	B.SC HONS I		K	K	K	K	K	K	K
10.	KARTIK KUMAR	B.SC HONS II		K	K	K	K	K	K	K
11.	VINAY KUMAR SEVDA	B.SC HONS II		V	V	V	V	V	V	V

12.	TEJVEER KUNTAL	B.SC HONS III	Tej	Tej	Tej	Tej	Tej	Tej	Tej
13.	HARISH KUMAR	B.SC HONS III	Harish	Harish	Harish	Harish		Harish	Harish
14.	ARSHDEEP SINGH	B.SC HONS III	Arsh	Arsh	Arsh	Arsh		Arsh	Arsh
15.	DEEPALI KARWA	B.SC I	Deep	Deep	Deep		Deep	Deep	Deep
16.	VISHAKHA SHARMA	B.SC I	Vish	Vish	Vish	Vish	Vish	Vish	Vish
17.	GUNGUN KAUSHIK	B.Sc II	Gungun		Gungun	Gungun	Gungun	Gungun	Gungun
18.	SALONI GARG	B.Sc II	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
19.	VASHU	B.Sc III	Vashu	Vashu	Vashu	Vashu	Vashu		Vashu
20.	KHUSHWANT SINGH SOLANKI	B.Sc III	Khush	Khush	Khush	Khush	Khush	Khush	Khush
21.	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED	Raksha	Raksha	Raksha	Raksha	Raksha	Raksha	
22.	DAMINI GROVER	B.V.A. 4th APPLIED	Damini	Damini	Damini	Damini	Damini	Damini	Damini
23.	NITIN SONI	B.V.A. 4th PAINTING	Nitin	Nitin	Nitin		Nitin	Nitin	Nitin
24.	SUNIL CHOUDHARY	BBA 1st	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil

25.	NILAY RAI	BBA 1st	nilay	nilay	nilay		nilay	nilay	nilay
26.	DEEPANSHU SINGH	BBA 1st	De	De	De	De	De	De	De
27.	PRADEEP SINGH BHATI	BBA 1st	P	P	P	P	P		P
28.	MS SANSKRITI DADHEECH	BBA 2nd A	Sans	Sans	Sans	Sans	Sans	Sans	Sans
29.	ABHISHEK SINGH	BBA 2nd A	Abhishek	Abhishek		Abhishek	Abhishek	Abhishek	Abhishek
30.	LAKSHYA ANAND	BBA 3rd A	Lak	Lak	Lak	Lak	Lak	Lak	Lak
31.	MS POOJA SHARMA	BCA 1st	Pooja	Pooja	Pooja	Pooja		Pooja	Pooja
32.	MS NIDHI SHARMA	BCA 1st	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
33.	SACHIN PAL JADOUN	BCA 1st	S	S	S	S	S	S	S
34.	BHUPENDER KUMAR	BCA 1st	B	B	B	B	B	B	B
35.	AJAY SONI	BCA 2nd	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay

Certification Course in Data Analysis and Visualization

July 10, 2019 to August 20, 2019

Sr.	Name	Class	Day	10						
			Date	10/7/19	11/7/19	12/7/19	13/7/19	15/7/19	16/7/19	17/7/19
1.	ANKIT SHARMA	B.A. I		Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
2.	DIGVIJAY SINGH TANWAR	B.A. II		D	D	D	D	D	D	D
3.	VINAY VYAS	B.A. II		V	V	V	V	V	V	V
4.	MS POOJA BHATI	B.A. II		P	P	P	P	P		P
5.	MAHESH JANGID	B.A. II		Maha	Maha	Maha	Maha	Maha	Maha	Maha
6.	DEVANSHU SHARMA	B.A. III		Devanshu		Devanshu	Devanshu	Devanshu	Devanshu	Devanshu
7.	RISHABH JAIN	B.Com I		R	R	R	R	R	R	R
8.	MS SNEHA AGARWAL	B.Com I		Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha
9.	KUNAL SINGH	B.SC HONS I		Kunal	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal
10.	KARTIK KUMAR	B.SC HONS II		K	K	K	K	K	K	

11.	VINAY KUMAR SEVDA	B.SC HONS II	Vinay	Vinay	Vinay	Vinay	Vinay	Vinay	Vinay
12.	TEJVEER KUNTAL	B.SC HONS III	Tej	Tej	Tej		Tej	Tej	Tej
13.	HARISH KUMAR	B.SC HONS III	Harish	Harish	Harish	Harish	Harish	Harish	Harish
14.	ARSHDEEP SINGH	B.SC HONS III	A	A	A	A	A	A	
15.	DEEPALI KARWA	B.SC I	Deep		Deep	Deep	Deep	Deep	Deep
16.	VISHAKHA SHARMA	B.SC I	V	V	V	V	V	V	V
17.	GUNGUN KAUSHIK	B.Sc II	Gungun	Gungun	Gungun	Gungun	Gungun	Gungun	Gungun
18.	SALONI GARG	B.Sc II	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
19.	VASHU	B.Sc III	V	V	V	V	V	V	
20.	KHUSHWANT SINGH SOLANKI	B.Sc III	K	K	K	K	K	K	K
21.	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED	Raksha		Raksha	Raksha	Raksha	Raksha	Raksha
22.	DAMINI GROVER	B.V.A. 4th APPLIED	Damini	Damini	Damini	Damini	Damini	Damini	Damini
23.	NITIN SONI	B.V.A. 4th PAINTING	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin



24.	SUNIL CHOUDHARY	BBA 1st	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
25.	NILAY RAI	BBA 1st	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	
26.	DEEPANSHU SINGH	BBA 1st	DP	DP	DP	DP		DP	DP
27.	PRADEEP SINGH BHATI	BBA 1st	P	P	P	P	P	P	P
28.	MS SANSKRITI DADHEECH	BBA 2nd A	Sony	Sony	Sony	Sony	Sony		Sony
29.	ABHISHEK SINGH	BBA 2nd A	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	
30.	LAKSHYA ANAND	BBA 3rd A	LS	LS	LS		LS	LS	LS
31.	MS POOJA SHARMA	BCA 1st	Pajr	Paj.	Paj.	Paj	Pers	Paj	Paj
32.	MS NIDHI SHARMA	BCA 1st	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
33.	SACHIN PAL JADOUN	BCA 1st	S	S	S	S	S	S	S
34.	BHUPENDER KUMAR	BCA 1st	B	B	B	B	B	B	B
35.	AJAY SONI	BCA 2nd	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay

Sr.	Name	Class	Day							
			Date	26/7/19	27/7/19	29/7/19	30/7/19	21/7/19	1/8/19	2/8/19
1.	ANKIT SHARMA	B.A. I		ankit	ankit	ankit	ankit	ankit	ankit	ankit
2.	DIGVIJAY SINGH TANWAR	B.A. II		D	D	D	D	D	D	D
3.	VINAY VYAS	B.A. II		V	V	V	V	V	V	V
4.	MS POOJA BHATI	B.A. II		P	P	P	P	P	P	P
5.	MAHESH JANGID	B.A. II		mahesh	mahesh	mahesh	mahesh	mahesh	mahesh	mahesh
6.	DEVANSHU SHARMA	B.A. III		devanshu		devanshu	devanshu	devanshu	devanshu	devanshu
7.	RISHABH JAIN	B.Com I		R	R	R	R	R	R	R
8.	MS SNEHA AGARWAL	B.Com I		sneha	sneha	sneha		sneha	sneha	sneha
9.	KUNAL SINGH	B.SC HONS I		kunal	kunal	kunal	kunal	kunal	kunal	kunal
10.	KARTIK KUMAR	B.SC HONS II		K	K	K	K	K	K	K
11.	VINAY KUMAR SEVDA	B.SC HONS II		vijay	vijay	vijay	vijay	vijay	vijay	vijay

12.	TEJVEER KUNTAL	B.SC HONS III	Tej	Tej		Tej	Tej	Tej	Tej
13.	HARISH KUMAR	B.SC HONS III	Harish	Harish	Harish	Harish	Harish	Harish	Harish
14.	ARSHDEEP SINGH	B.SC HONS III	A	A	A	A		A	A
15.	DEEPALI KARWA	B.SC I	Deep	Deep	Deep	Deep	Deep		Deep
16.	VISHAKHA SHARMA	B.SC I	V	V	V	V	V	V	V
17.	GUNGAN KAUSHIK	B.Sc II	Gangan	Gangan	Gangan		Gangan	Gangan	Gangan
18.	SALONI GARG	B.Sc II	Salu	Salu	Salu	Salu	Salu	Salu	Salu
19.	VASHU	B.Sc III	V	V	V	V	V	V	V
20.	KHUSHWANT SINGH SOLANKI	B.Sc III	K	K	K	K	K	K	K
21.	RAKSHA CHATURVEDI	B.V.A. 4th APPLIED	Raksha	Raksha	Raksha	Raksha		Raksha	Raksha
22.	DAMINI GROVER	B.V.A. 4th APPLIED	Damini	Damini	Damini	Damini	Damini	Damini	Damini
23.	NITIN SONI	B.V.A. 4th PAINTING	Nitin	Nitin	Nitin		Nitin	Nitin	Nitin
24.	SUNIL CHOUDHARY	BBA 1st	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil

25.	NILAY RAI	BBA 1st	Nilay	nilay	Nilay	Nilay	Nilay		Nilay
26.	DEEPANSHU SINGH	BBA 1st	D	D	D	D	D	D	D
27.	PRADEEP SINGH BHATI	BBA 1st	P	P	P	P	P	P	
28.	MS SANSKRITI DADHEECH	BBA 2nd A	Sony	Sony	Sony	Sony	Sony	Sony	Sony
29.	ABHISHEK SINGH	BBA 2nd A	Abhishek	Abhishek	Abhishek	Abhishek		Abhishek	Abhishek
30.	LAKSHYA ANAND	BBA 3rd A	Lak	Lak	Lak	Lak	Lak	Lak	Lak
31.	MS POOJA SHARMA	BCA 1st	Pooja	Pooja	Pooja	Pooja	Pooja		Pooja
32.	MS NIDHI SHARMA	BCA 1st	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
33.	SACHIN PAL JADOUN	BCA 1st	S	S	S	S	S	S	
34.	BHUPENDER KUMAR	BCA 1st	B	B	B	B	B		B
35.	AJAY SONI	BCA 2nd	Ajay	Ajay	Ajay		Ajay	Ajay	Ajay

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

*Certificate of Participation*

This is to certify that

**ANKIT SHARMA**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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Principal

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of **Sanskriti College** has participated in Value added course

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of **Sanskriti College** has participated in Value added course

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**VINAY KUMAR SEVDA**

of **Sanskriti College** has participated in Value added course

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**TEJVEER KUNTAL**

of **Sanskriti College** has participated in Value added course

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**HARISH KUMAR**

of **Sanskriti College** has participated in Value added course

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on **July 10, 2019 to August 14, 2019**



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**ARSHDEEP SINGH**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**DEEPALI KARWA**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**VISHAKHA SHARMA**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**GUNGUN KAUSHIK**

of **Sanskriti College** has participated in Value added course

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on **July 10, 2019 to August 14, 2019**



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Principal

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This is to certify that

**SALONI GARG**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**VASHU**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**KHUSHWANT SINGH SOLANKI**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**RAKSHA CHATURVEDI**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**DAMINI GROVER**

of **Sanskriti College** has participated in Value added course

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This is to certify that

**NITIN SONI**

of **Sanskriti College** has participated in Value added course

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on **July 10, 2019 to August 14, 2019**



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This is to certify that

**SUNIL CHOUDHARY**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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This is to certify that

**NILAY RAI**

of **Sanskriti College** has participated in Value added course

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Principal

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

*Certificate of Participation*

This is to certify that

**DEEPANSHU SINGH**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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Principal

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

*Certificate of Participation*

This is to certify that

**PRADEEP SINGH BHATI**

of **Sanskriti College** has participated in Value added course

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on **July 10, 2019 to August 14, 2019**



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Principal

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Affiliated with University of Rajasthan

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This is to certify that

**MS SANSKRITI DADHEECH**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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Principal



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**ABHISHEK SINGH**

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Principal

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This is to certify that

**LAKSHYA ANAND**

of **Sanskriti College** has participated in Value added course

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of **Sanskriti College** has participated in Value added course

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This is to certify that

**MS NIDHI SHARMA**

of **Sanskriti College** has participated in Value added course

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Principal

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

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This is to certify that

**SACHIN PAL JADOUN**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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Principal

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

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This is to certify that

**BHUPENDER KUMAR**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



Principal

# SANSKRITI COLLEGE

Affiliated with University of Rajasthan

*Certificate of Participation*

This is to certify that

**AJAY SONI**

of **Sanskriti College** has participated in Value added course

**“CERTIFICATION COURSE IN DATA ANALYSIS AND VISUALIZATION”**

on **July 10, 2019 to August 14, 2019**



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Principal