Department of Statistics

ACTIVITY REPORT

ACADEMIC YEAR	2023-24
Activity No.	Statistics/23-24/05
Name of the Activity	Certificate Course on Data Analysis Using MS Excel.
Date	08 august 2023 to 26 October 2023 (45 Lectures)
Time	
Venue	T.Y.B.Sc. Classroom
Organized by	Department of Statistics
Co-Ordinator	Mr. S. S. Bhaskar
Activity for College/Class/Group	Class
No. of Beneficiaries	20
Nature: Academic/Co-curricular/Extra- curricular/Extension	Academic
Objectives of Activity	To facilitate and to gain expertise in advanced techniques of MS Excel. To enhance the technical knowledge in MS Excel.
Brief Information about Activity	As per the Notice of the course, syllabus, timetable has been prepared and 45 lectures of course have been conducted. All the lectures of this course have been taken. Theory and Practical Exam has been conducted of 100 Marks. Result of exam was declared and Certificates of the course were distributed to the students.
Outcome	After participating in this event, the students understood the basic concepts in MS Excel softward & enhanced the technical knowledge in MS Excel.
Feedback Analysis	The Oral feedback was taken after the event. From the response of the students, it was found that the course was successful. No suggestions were given.
Supported Documents	Activity report, Notice, list of students, attendance.

Coordinator (5.5. Bhasker)

Principal
PRINCIPAL
ANANDIBAI RAORANE ARTS, COMMERCE
& MENCE COLLEGE, VAIBHAYWAD

Date-05/08/2023

NOTICE

All students are hereby informed that Department of Statistics is going to start Short Term Certificate Course in "<u>Data Analysis Using MS-EXCEL</u>" in the FIRST term of academic year 2023-24 from 08 august 2023 to 26 October 2023. the interested candidates are informed to register their names to Prof. S. S. Bhaskar on or before 07 august 2023.

Coordinator

(3.3. Bhasban)

PRINCIPAL

ANANDIBAI RAORANE ARTS, COMMERCE

& WIENCE COLLEGE, VAIBHAVWADI

Department of Statistics

A Certificate Course in

Title: -Data Analysis Using Microsoft Office Excel (MS-Excel)

Duration: 08 august 2023 to 26 October 2023 (45 Lectures)

Objectives

1. To enhance the technical knowledge in MS Excel of the students.

2. We Endeavour to make this department as an advanced center of innovation in Software technologies.

3. To retain student attachment and upgrade the standards of teaching, learning and research to match global level of excellence.

Syllabus

UNIT I (11 Lectures)

Perquisites and basic terminologies in MS-Excel, Types of data (texts, numbers, dates, functions.), Data Input, Formatting cells, Numbers, Date, Times, Font, Colors, Borders, Fills. Graphical toolbox, Data filtration, sort, text to columns. Random number generation

UNIT II (11 Lectures)

Functions: Statistical and Mathematical Functions (ROUND, ROUNDDOWN, ROUNDUP, CEILING, FLOOR, INT, MAX, MIN, MOD, SQRT, ABS, Measures of central tendency, Dispersion, Correlation), Financial Functions (FV, PV, PMT, PPMT, IPMT, NPER, RATE, NPV, IRR).

UNIT III (11 Lectures)

Working with data: Data validation, data consolidation, Data Analysis tool box (one sample and two sample statistical tests), what-if analysis, Pivot tables and charts. MACROs: Definition and use, record a macro, assign a macro, run a macro and store a macro.

Technical (Lab.) Sessions/ Practical's

(12 Lectures)

1. Tabulation and Graphical representation of data

- 2. Use of Statistical and Mathematical Functions (Basic Functions, Measures of Central Tendency and Dispersion)
- 3. Use of Financial functions
- 4. One sample and two sample statistical tests
- 5. Pivot Tables and Pivot Chart

(3. 5. Bhastrer)

PRINCIPAL

ANANDIBAI RADRAME ARTS, COMMERCE

& COENCE COLLEGE, VAIBHAVWADI

Department of Statistics

Course End Examination

Theory

Theory Exam - 50 Marks

At the end of course, Theory examination of 2 hours duration and <u>50 marks</u> based on syllabus shall be held.

Practical

Practical Exam - 50 Marks

At the end of course, Practical examination of 2 hours duration and <u>40 marks</u> based on syllabus shall be held. <u>10 marks</u> for VIVA. (40+10=50)

Pattern of Question paper.

• Theory

Question one based on all units. Ten sub-questions of 2 marks each.

Question two based on all units. Three sub-questions of 10 marks each.

Practical

There should be Four Questions of 10 marks each. Students should attempt all questions.

Coordinator

(3.5. Bhaskor)

PRINCIPAL

ANANDIBAI RAORANE ARTS, COMMERCE

& CALLEGE, VAIBHAVWADI

Certificate course in "Data Analysis using MS Excel" 2023-24 (Duration: 08 august 2023 to 26 October 2023)

List of students

Sr No	Name of Students	Class
1	Humbe Pooja Pandurang Anita	S.Y.B.Sc.
2	Jethe Priyanka Ganesh Bhagyashri	S.Y.B.Sc.
3	Magdum Sagar Sanjay Snehal	S.Y.B.Sc.
4	Malim Sharmin Abdulgafar Akila	S.Y.B.Sc.
5	Patil Tejaswini Satyawan Savita	S.Y.B.Sc.
6	Ramdul Fiza Salim Ayisha	S.Y.B.Sc.
7	Rane Mahesh Manohar Sulochana	S.Y.B.Sc.
8	Raorane Nidhee Giridhar Prachi	S.Y.B.Sc.
9	Raorane Sakshee Jaywant Juhi	S.Y.B.Sc.
10	Shelke Vaibhavi Satyawan Sushama	S.Y.B.Sc.
11	Agre Dnyaneshwari Ramesh Rasika	F.Y.B.Sc.
12	Agre Prachi Ramesh Reshma	F.Y.B.Sc.
13	Bandiwadekar Pranjali Sunil Suvidha	F.Y.B.Sc.
14	Bharmal Shrushti Anil Rohini	F.Y.B.Sc.
15	Bhutal Vaishnavi Ajay Dipali	F.Y.B.Sc.
16	Chauhan Lucky Ambika Sunita	F.Y.B.Sc.
17	Chougule Akshay Pradip Jyoti	F.Y.B.Sc.
18	Gaikwad Vaishnavi Dipak Dipali	F.Y.B.Sc.
19	Gosavi Vignesh Suresh Sujata	F.Y.B.Sc.
20	Gurav Sujal Mangesh Anita	F.Y.B.Sc.

Coordinator
(3.5. Bhas kor)

ANANDIBAI RADRANE ARTS, COMMERCE & CIENCE COLLEGE, VAIBHAVWAD

Certificate course in "Data Analysis using MS Excel 2023-24" (Duration: 08 august 2023 to 26 October 2023)

Mark Sheet

Sr No	Name of Students	Class	Grade
1	Humbe Pooja Pandurang Anita	S.Y.B.Sc.	A
2	Jethe Priyanka Ganesh Bhagyashri	S.Y.B.Sc.	A
3	Magdum Sagar Sanjay Snehal	S.Y.B.Sc.	A
4	Malim Sharmin Abdulgafar Akila	S.Y.B.Sc.	Α
5	Patil Tejaswini Satyawan Savita	S.Y.B.Sc.	A
6	Ramdul Fiza Salim Ayisha	S.Y.B.Sc.	A
7	Rane Mahesh Manohar Sulochana	S.Y.B.Sc.	A
8	Raorane Nidhee Giridhar Prachi	S.Y.B.Sc.	A
9	Raorane Sakshee Jaywant Juhi	S.Y.B.Sc.	Α
10	Shelke Vaibhavi Satyawan Sushama	S.Y.B.Sc.	A
11	Agre Dnyaneshwari Ramesh Rasika	F.Y.B.Sc.	A
12	Agre Prachi Ramesh Reshma	F.Y.B.Sc.	A
13	Bandiwadekar Pranjali Sunil Suvidha	F.Y.B.Sc.	Α
14	Bharmal Shrushti Anil Rohini	F.Y.B.Sc.	A
15	Bhutal Vaishnavi Ajay Dipali	F.Y.B.Sc.	A
16	Chauhan Lucky Ambika Sunita	F.Y.B.Sc.	A
17	Chougule Akshay Pradip Jyoti	F.Y.B.Sc.	A
18	Gaikwad Vaishnavi Dipak Dipali	F.Y.B.Sc.	A
19	Gosavi Vignesh Suresh Sujata	F.Y.B.Sc.	A
20	Gurav Sujal Mangesh Anita	F.Y.B.Sc.	Α

Coordinator (3.5. Bhesbor)

ANANDIBAI RAORANE ARTS, COMMERCE & SCIENCE COLLEGE, VAIBHAVWADI

Certificate course in "Data Analysis using MS Excel 2023-24" (Duration: 08 august 2023 to 26 October 2023)

Result Analysis

Grade	О	A	В	C	D	TOTAL
No. of Students	00	20	Comment of the	i a <u>·</u>		20

Coordinator (5.5. Bhoston)

& SCIENCE COLLEGE, VAIBHAVWAD

Department of Statistics

Certificate course in "Data Analysis using MS Excel 2023-24"

(Duration: 08 august 2023 to 26 October 2023)

Theory Examination

Course Code:

Time: 2 Hours

Date: --/--/2023

Marks-50

	TALCE and correct if necessar	V (10)
O1. A. State whether following statements are	TRUE or FALSE and correct if hecessar.	, (-0)
OI. A. State whether following statements are	, 11102	

- i. Random number from can be generated from RAND() function.
- ii. Graphical toolbox is appeared in 'HOME' tab.
- iii. Mean() is a function that used to calculate average of a vector.
- iv. NPV (rate, First value) syntax is used to calculate Net present value.
- v. Variance(val1, val2.....valn) function is used to calculate variance of n specified values.

Q1. B. Fill in the blanks (10)

- i. Data can be arranged in ascending order by usingdialogue box.
- ii. To move previous worksheet, you will use the keys Cltr+......
- iii. In Microsoft Excel, the function returns a value from a range or an array.
- iv.is the two macro languages in MS-Excel.
- v. returns the day of the week for a particular date counting from Sunday.

Q2. Attempt the following

(30)

 a) How many data format available in MS-Excel? What is ribbon? Give five useful functions to manipulate data.

OR

- b) What are charts in MS-Excel? Explain data filtration technique in MS-Excel.
- c) Explain in brief two macro languages in MS-Excel?

OR

- d) Explain five data analysis tools.
- e) Write note on financial functions in MS-Excel.

OR

f) What are the functions used to find measures of dispersion?

Certificate course in "Data Analysis using MS Excel 2023-24"

(Duration: 08 august 2023 to 26 October 2023)

Practical Examination

Course Code:

Time: 2 Hours

Date: -- /-- /2023

Marks: 40+10=50

- All questions are compulsory.
- Viva of 10 marks will be taken.
- Each question of 10 marks.

Q.1 Solve the following questions

- a) In a new worksheet, create a table and insert the following information. Use different fonts for different columns, (10)
 - 1) Names of people (at least 10)
 - 2) Their ages
 - 3) Their address
 - 4) Number of years they have worked
 - 5) Salary per month

b) Draw the histogram of the given data

(10)

Jian the motogra			AND COLUMN TO MEN	PRODUKE BUILD VILLER	R. S. STORES SECTION	14
class	0-10	10-20	20-30	30-40	40-50	50-60
No. Of Students		15	35	30	21	25

c) Draw the Pie-chart of the given data

(10)

Food	Fruit	vegetable	Dairy	Proteins	Grains
Percentage	36%	14%	13%	28%	9%

d) If the observations are 4,5,3,9,6,7,2,1,8,2,11,15. (10)
Then find mean, median, mode, variance, standard deviation, quartiles, max, and min.



Anandibai Raorane Arts, Commerce & Science College, Vaibhavwadi Maharana Pratapsinh Shikshan Sanstha, Mumbai's

Department of Statistics

Certificate course in "Data Analysis using MS Excel" 2023-24

(Duration: 08 august 2023 to 26 October 2023) Students Attendance

Cr. No	Mama of Chidont	0.1	00	. 03	0.4	2	90	07	80	03	OT.	-	
Sr. NO	Name of Student	70	70,	3	2	2			C		0	a	۵
1	Humbe Pooja Pandurang	۵	ر د د	۵	٥	٥	d	2	7	1		- 0	0
2	Jethe Privanka Ganesh	٥	ا ا	Ь	٥	٥	۵	d	1	۵	7	2	- 4
3	Magdum Sagar Saniay	٥	٨	d	٥	d	٨	الم	d .	٥	- L	1	٠, ٠
4	Malim Sharmin Abdulgafar	d	۵	d	b	P	0	d	۵-	۵	۵	2	~
r	Patil Tejaswini Satyawan	٥	٥	d	d	٥	4	0	4	۵	۵	٥	١
9	Ramdul Fiza Salim	0	٥	d	b	-	d	d	b	۵	d	4	7 6
7	Rane Mahesh Manohar	۵	d	d	d	d	d	а	d	۵	۵	0	2 (
8	Raorane Nidhee Giridhar	٥	¢	d	d	þ	4	•	, d	٥	٥	٨	2
6	Raorane Sakshee Javwant	٩	٩	d	d	, d	٩	d	1 d	٥	۵	<u>a</u>	۵
10	Shelke Vaibhavi Satyawan	٥	d	d	d = 12	h d	Ь	۵	Q.	Ь	۵	۵	٥
11	Agre Duyaneshwari Ramesh	٥	٥	d	d		d	d	۵	۵	Δ	۵	Δ.
12		٥	٥	d	d	d	٥	d	9	۵	٩	٩	Δ.
13	21 102 4	0	٥	d	9	d	4	6	P	٥	۵	۵	٨
14	Bharmal Shrushti Anil	0	۵	۵	d	d	Ь	b	p .	۵	d	۵	۵
1, 1	10.0	٥	م	٥	d	b	þ	9	P	۵	۵	۵	Ь
16	1	d	٥	۵	Ь	d	٥	d	Ь	4	٨	۵	
17	DI WYS	۵	d	۵	6	d	۵.	d	Ь	؎	P	۵	
10	45 (50)	٥	Δ.	۵	٥	4	Ь	d	d	4	Ь	þ	Р
10	10.7	9	4	٩	۵	4	ه	Ь	6	۵	٥	d	J
20		٥	4	٩	٩	Ь	۵	۵	b	À	4	4	٥
27	Onlay Dujan Manigorin	The Park Street	ではいまではいる	の対象を確認	10 to 18 5.2 to	· · · · · · · · · · · · · · · · · · ·	THE WALLS	1000			18.88		





ANANDIBAI RAORANE ARTS, COMMERCE & SIENCE COLLEGE, VAIBHAVWAD!



Department of Statistics

0	MAN	ET & &	
N. Appl	£57.25	NUADI	13
la de	JAPO CO	, s	
	90		ā

20 21	4	d d	Ь	d d		0			4	7			7 6	110	<u>а</u>	d 4		d d	0	12
19	۵	d	۵	۵	8	٥		0				IV.	А	٥	٥	ما	٥	۵	٩	a
18	d	٩	4	9	٥	۵	۵	۵	۵	۵	٥ ـ	_		۵	۵	a .	٩	<u>a</u>	٥	4
17	A	٩	Р	Ь	a	d	d	٩	d	۵	۵		. (7	۵ ر	7	م (2	0	٥
16	4	۵.	۵	Ь	۵	۵	٥	۵	٥	۵	۵	- 9	_ 0	_0	L C	_ <	2 0	<u> </u>	7 (2
15	۵	٩	4	۵	0	ф	4	4	٥	٩	a	٥	۵	_ (2 0	- 0	_ 0	- 0	+ 0	_ A
14	đ	٩	a.	۵	٥	4	٩	4	О	۵	4	. 0	0	- 0	- 6	10	0		4	
13	4	d ·	Р	۵.	۵	٥	d	۵	Р	Ь	Ь	4	۵	0	4	0	٥	٥	٩	-
Name of Student	Humbe Pooja Pandurang	Jethe Priyanka Ganesh	Magdum Sagar Sanjay	Malim Sharmin Abdulgafar	Patil Tejaswini Satyawan	Ramdul Fiza Salim	Rane Mahesh Manohar	Raorane Nidhee Giridhar	Raorane Sakshee Jaywant	Shelke Vaibhavi Satyawan	Agre Dnyaneshwari Ramesh	Agre Prachi Ramesh	Bandiwadekar Pranjali Sunil	Bharmal Shrushti Anil	Bhutal Vaishnavi Ajay	Chauhan Lucky Ambika	Chougule Akshay Pradip	Gaikwad Vaishnavi Dipak	Gosavi Vignesh Suresh	Gurav Sujal Mangesh
Sr. No	1		3				7		1	-	-	12 Ag	13 Ba	14 Bh	-	-			-	ZO Gura

Cokakade

AVANDIBAI RAORANE ARTS, COMMERCE & WENCE COLLEGE, VAIBHAVWADI

Certificate course in "Data Analysis using MS Excel 2023-24" (Duration: 08 august 2023 to 26 October 2023)

Feedback Form

***	*********	
1.	Were objectives of the course clear to you	STAPTS OF MOME KA
	Yes b) No	S EST-1992 VAIBHAVWADI
2.	The course content met with your expectation	300
	a) Strongly agree b) Agree c) Not sure d) Disagree	* 101
3.	The exposed you to new knowledge and practices	
	a) Strongly agree b) Agree c) Not sure d) Disagree	
4.	The lectures were clear and easy to understand	
	a)-Strongly agree b) Agree c) Not sure d) Disagree	
5.	The teaching aids were effectively used	
	a) Strongly agree b) Agree c) Not sure d) Disagree	
6.	Please give overall rating of course	
	(a) 80-100% b) 60-80% c) 40-60% d) bellow 40%	
7.	Any suggestions	
No	Suggestions.	
140	5 34ge 51.011a:	Caldinate Co
		445-210-

Date 26 october 2023

Parrane Signature of the student Nidhee Giridhar Raosane