

"Education through self-help is our motto"- KARMAVEER
RAYAT SHIKSHAN SANSTHA'S
RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR
DEPARTMENT OF STATISTICS

Organized
Exploratory Data Analysis Using MS-Excel
Self - Funded under Short Term Courses in the academic year 2023-24
COURSE REPORT

Department of statistics organized the certificate course on Exploratory Data Analysis using MS-Excel in Statistics for B. Sc I Computer Science (entire) students for the academic year 2023-24. The main objectives of this course are:

- To indicate the names and functions of excel interface components
- To learn how to enter and edit the data
- To learn how to formulate the data and cells
- To learn how to create and modify chart and graph
- Preview and print worksheets
- To identify different statistical inbuilt functions
- To learn techniques of computations of various statistical measures using Excel

For this course fee of Rs.300 charged to the students. This course was conducted during the period of 12/10/2023 to 30/10/2023. Total number of beneficiaries for this course is 24. After completion of this course the students' knowledge was checked through various computation tasks through assignments. Each student who was successfully completed this course was awarded by certificate. Mr. Chougule P. S, Dr. Smt. Shaikh Z. J. (co-ordinator), Dr. Kurane T. S Bhosale A. S. and Smt. Patil P. S. are worked as a Resource person for this course. The output of this course is the students shall become confident and they acquire the knowledge requires to perform exploratory data analysis activities using MS-Excel.

Outcomes: The students shall become confident and they acquire the knowledge requires toperform exploratory data analysis activities using MS-Excel.

Total number of beneficiaries is 24.

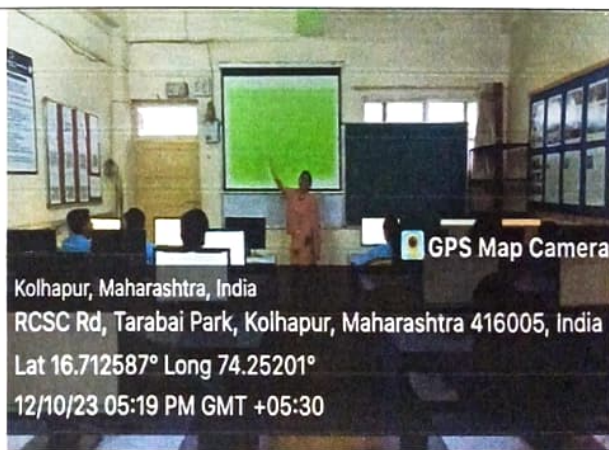
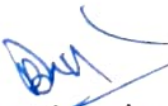
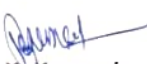


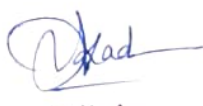
Photo: The lecture of EDA given by Smt. A. S. Bhosale


Mr. P. S. Chougule
Head


Smt. Z. J. Shaikh
Coordinator & Head


Dr. M.K. Kannade
Incharge


Dr. S. D. Shaikh
IQAC


Dr. L. D. Kadam
Principal

Dept. of Statistics Dept. of Computer Science Short term Courses Coordinator R. C. Shahu College, Kolhapur

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Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Statistics & Computer Science

Organized

**Certificate Course on Exploratory data analysis using MS-Excel held on
12/10/2022 to 30/10/2023**

(Self – Funded)

Under

COC and Short Term Courses

2023-2024

Income and Expenditure Statement

Income	Amount (in Rs.)	Expenditure	Amount (in Rs.)
Particulars		Particulars	
1) Total Participants = 24 (20*300)	7200/-	1) GST 18%	1296
		2) Certificate Printing	360/-
		3) Remuneration for Recourse Person Lumsum (40% of Total amount 5544 is 2217 /- equally distributed into 2 persons)	
		i) Smt.A.S.Bhosale	1109/-
		ii) Smt. P.S.Patil	1108/-
		3)Balance to College	3327/-
Total	7200=00	Total	7200=00



Smt. Z.J. Shaikh
Co-ordinator & Head,
Department of Computer Science



Mr. P. S. Chougule
Head,
Department of Statistics



Dr. M. K. Kannade
Incharge,
Short Term Courses



Dr. L.D. Kadam
Principal,
R. C. Shahu College, Kolhapur



Rayat Shikshan Sanstha's

RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

NAAC 4th Cycle Reaccredited with A + + (CGPA- 3.78)

DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE



This is to certify that Prof./Shri./Smt. _____ of

Rajarshi Chhatrapati Shahu College, Kolhapur has attended and Participated/Delivered a Lecture as Resource Person/Successfully Completed Certificate Course on **Exploratory data analysis using MS-Excel** Jointly organized by Department of Statistics and Department of Computer Science of Rajarshi Chhatrapati Shahu College, Kolhapur from 12/10/2023 to 30/10/2023.


Smt. Z. J. Shaikh
Coordinator & Head,
Dept. of Computer Science


Dr. T. S. Kurane
Convener
Dept. of Statistics


Mr. P. S. Chougule
Head
Dept. of Statistics


Dr. M. R. Kannade
In charge
Short term Courses


Dr. S. D. Shaikh
IQAC
Coordinator


Dr. L. D. Kadam
Principal
R. C. Shahu College, Kolhapur.

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Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics
Organized
“Exploratory Data Analysis using MS-Excel”
Exam (2023-24)

Date: 30/10/2023

Marks: 50

Time: 1 hour

Q.1 Find AM, SD and CV of the following data. (10)

43, 42, 48, 35, 65, 12, 67, 88

Q.2 Represent the following data using simple bar diagram. (10)

Year	Production(in million tons)
1985	35
1986	45
1987	50
1988	47
1989	52

Q.3 The marks in statistics of 100 students are given below. (10)

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of students	4	6	10	15	22	18	12	8	3	2

Q.4 Find Correlation Coefficient between X and Y. (10)

Price (X)	71	68	66	67	70	72	69	73	70	65
Supply(Y)	59	64	65	63	62	61	60	58	57	65

Q.5 Find AM, GM, HM of the following data. (10)

32, 35, 36, 37, 39, 41, 43, 47, 48, 38

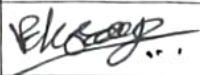
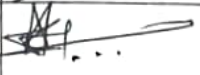
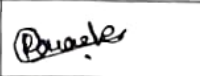
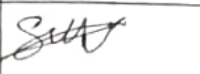
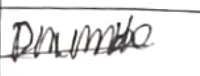
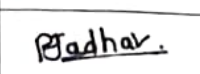
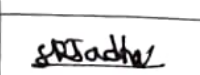
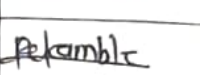
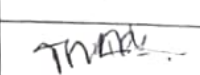
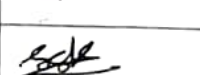
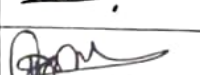
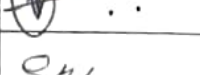
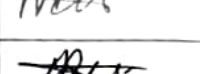
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Department of Statistics
Organized
“Exploratory Data analysis using MS-Excel”
List of Enrolled Students (2023-24)

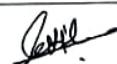
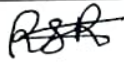
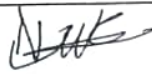
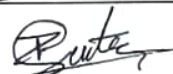
Sr. No.	Name of Student	Class	Signature of student
1	CHORAGE VISHWAJEET RAJENDRA	BCS1	47
2	CHOUDHARI AJIT KAMALAKAR	BCS1	45
3	GAWADE RASIKA RAMESH	BCS1	48
4	HATTIKAT SAGAR YALAPPA	BCS1	48
5	HUMBE DATTARAJ PANDURANG	BCS1	47
6	JADHAV PAURNIMA HEMANT	BCS1	50
7	JADHAV SANCHITA RAGHUNATH	BCS1	50
8	KAMBLE RAJNANDINI CHANDRAKA	BCS1	49
9	KENJLEKAR TEJAS MARUTI	BCS1	45
10	KOLEKAR SURAJ SHIVAJI	BCS1	46
11	KORE VARUN VINAY	BCS1	47
12	KUMBHAR SUYASH SARJERAO	BCS1	45
13	MANDE NAMDEV NARAYAN	BCS1	46
14	PATIL ABHIJIT RAMCHANDRA	BCS1	47
15	PATIL ASHWINI ARUN	BCS1	48

16	PATIL SANYOGITA BABASO	BCS1	48
17	RENUSE RUTUPARN SUNIL	BCS1	45
18	SALAVI NIKHIL NETAJI	BCS1	47
19	SIMANE GAYATRI SURESH	BCS1	48
20	SURYAVANSHI PRERANA VIJAY	BCS1	49
21	SUTAR PRADIP SHRIKANT	BCS1	50
22	SUTAR ROHIT RAMCHANDRA	BCS1	45
23	THORVAT ADITYA SACHIN	BCS1	45
24	ZANJAGE PRATIK VIJAY	BCS1	47

Head
 Department of Statistics
 Rajarshi Chh. Shahu College, Kolhapur

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Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics
Organized
"Exploratory Data analysis using MS-Excel"
List of Enrolled Students (2023-24)

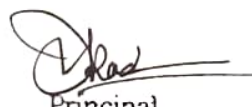
Sr. No.	Name of Student	Class	Signature of student
1	CHORAGE VISHWAJEET RAJENDRA	BCS1	
2	CHOUDHARI AJIT KAMALAKAR	BCS1	
3	GAWADE RASIKA RAMESH	BCS1	
4	HATTIKAT SAGAR YALAPPA	BCS1	
5	HUMBE DATTARAJ PANDURANG	BCS1	
6	JADHAV PAURNIMA HEMANT	BCS1	
7	JADHAV SANCHITA RAGHUNATH	BCS1	
8	KAMBLE RAJNANDINI CHANDRAKANT	BCS1	
9	KENJLEKAR TEJAS MARUTI	BCS1	
10	KOLEKAR SURAJ SHIVAJI	BCS1	
11	KORE VARUN VINAY	BCS1	
12	KUMBHAR SUYASH SARJERAO	BCS1	
13	MANDE NAMDEV NARAYAN	BCS1	
14	PATIL ABHIJIT RAMCHANDRA	BCS1	

15	PATIL ASHWINI ARUN .	BCS1	
16	PATIL SANYOGITA BABASO	BCS1	
17	RENUSE RUTUPARN SUNIL	BCS1	
18	SALAVI NIKHIL NETAJI	BCS1	
19	SIMANE GAYATRI SURESH	BCS1	
20	SURYAVANSHI PRERANA VIJAY	BCS1	
21	SUTAR PRADIP SHRIKANT	BCS1	
22	SUTAR ROHIT RAMCHANDRA	BCS1	
23	THORVAT ADITYA SACHIN	BCS1	
24	ZANJAGE PRATIK VIJAY	BCS1	



Head

Department of Statistics
Rajarsi Chh. Shahu College, Kolhapur



Principal,

Rajarsi Chh. Shahu College
Kolhapur

LOCATION AT SHIKSHAN SANSTHA'S

Exploratory Data Analysis using MS-Excel

[illegible]

Dynamics of Solidity

Raiarshi Chh. Shahu College

...AT CHIKSHAN SANSI HA 3

RAJARSHI CHITRA PAI SINGH CO. DEPARTMENT OF STATISTICS

DEPARTMENT OF STATISTICS
Learning MS-Excel

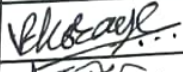
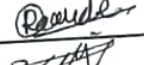
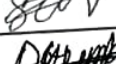
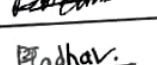
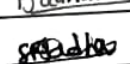
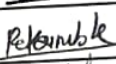
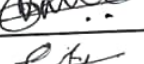
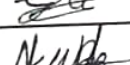
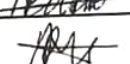
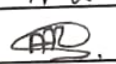
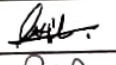
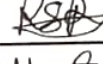
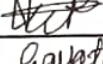
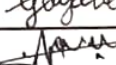
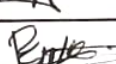
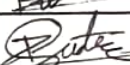
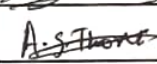
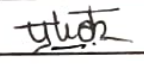
Exploratory Data Analysis using MS-Excel

Sr.No	Name of the Students
1	CHORAGE VISHWAJEET RAJENDRA
2	CHOUDHARI AJIT KAMALAKAR
3	GAWADE RASIKA RAMESH
4	HATTIKAT SAGAR YALAPPA
5	HUMBE DATTARAJ PANDURANG
6	JADHAV PAURNIMA HEMANT
7	JADHAV SANCHITA RAGHUNATH
8	KAMBLE RAJNANDINI CHANDRABAL
9	KENJILEKAR TEJAS MARUTI
10	KOLEKAR SURAJ SHIVAJI
11	KORE VARUN VINAY
12	KUMBHAR SUYASH SARJERAO
13	MANDE NAMDEV NARAYAN
14	PATIL ABHIJIT RAMCHANDRA
15	PATIL ASHWINI ARUN
16	PATIL SANTYOGITA BABASO
17	RENUSE RUTUPARN SUNIL
18	SALA VI NIKHIL NETAJI
19	SIMANE GAYATRI SURESH
20	SURYAVANSHI PRERANA VIJAY
21	SUTTAR PRADIP SHRUKANT
22	SUTAR ROHIT RAMCHANDRA
23	THORVAT ADITYA SACHIN
24	VISHWASGE PRAKATIK VIJAY

Rajarshi Chh. Shahu College
Kolhapur

Rayat Shikshan Sanstha's
Rajarshi chhatrapati shahu College, Kolhapur.
Department of statistics and computer science organised certificate course on
Exploratory data analysis using MS-Excel on 12/10/202 to 30/10/2023

Enrollment List

Sr. No.	Name of Students	Fee in Rs.	Receipt No.	Sign of students
1	CHORAGE VISHWAJEET RAJENDRA	300	4228	
2	CHOUDHARI AJIT KAMALAKAR	300	4229	
3	GAWADE RASIKA RAMESH	300	4230	
4	HATTIKAT SAGAR YALAPPA	300	4231	
5	HUMBE DATTARAJ PANDURANG	300	4232	
6	JADHAV PAURNIMA HEMANT	300	4233	
7	JADHAV SANCHITA RAGHUNATH	300	4234	
8	KAMBLE RAJNANDINI CHANDRAKANT	300	4235	
9	KENJLEKAR TEJAS MARUTI	300	4236	
10	KOLEKAR SURAJ SHIVAJI	300	4237	
11	KORE VARUN VINAY	300	4238	
12	KUMBHAR SUYASH SARJERAO	300	4239	
13	MANDE NAMDEV NARAYAN	300	4240	
14	PATIL ABHIJIT RAMCHANDRA	300	4241	
15	PATIL ASHWINI ARUN	300	4242	
16	PATIL SANYOGITA BABASO	300	4243	
17	RENUSE RUTUPARN SUNIL	300	4244	
18	SALAVI NIKHIL NETAJI	300	4245	
19	SIMANE GAYATRI SURESH	300	4246	
20	SURYAVANSHI PRERANA VIJAY	300	4247	
21	SUTAR PRADIP SHRIKANT	300	4248	
22	SUTAR ROHIT RAMCHANDRA	300	4249	
23	THORVAT ADITYA SACHIN	300	4250	
24	ZANJAGE PRATIK VIJAY	300	4251	
Total		7200		

Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

Rayat Shikshan Sanstha's
Rajarshi chhatrapati shahu College, Kolhapur.
Department of statistics and computer science organised certificate course on
Exploratory data analysis using MS-Excel on 12/10/2022 to 30/10/2023
Enrollment List

Sr. No.	Name of Students	Fee in Rs.	Receipt No.	Sign of students
1	CHORAGE VISHWAJEET RAJENDRA	300	4228	Vkharaj...
2	CHOUDHARI AJIT KAMALAKAR	300	4229	Ajit...
3	GAWADE RASIKA RAMESH	300	4230	Ramade...
4	HATTIKAT SAGAR YALAPPA	300	4231	Sagar...
5	HUMBE DATTARAJ PANDURANG	300	4232	Dattaraj...
6	JADHAV PAURNIMA HEMANT	300	4233	Jadhav...
7	JADHAV SANCHITA RAGHUNATH	300	4234	Sanchita...
8	KAMBLE RAJNANDINI CHANDRAKANT	300	4235	Rajnandini...
9	KENJLEKAR TEJAS MARUTI	300	4236	Tejas...
10	KOLEKAR SURAJ SHIVAJI	300	4237	Suraj...
11	KORE VARUN VINAY	300	4238	Varun...
12	KUMBHAR SUYASH SARJERAO	300	4239	Suyash...
13	MANDE NAMDEV NARAYAN	300	4240	Namdev...
14	PATIL ABHIJIT RAMCHANDRA	300	4241	Abhijit...
15	PATIL ASHWINI ARUN	300	4242	Ashwini...
16	PATIL SANYOGITA BABASO	300	4243	Sanyogita...
17	RENUSE RUTUPARN SUNIL	300	4244	Rutuparn...
18	SALAVI NIKHIL NETAJI	300	4245	Nikhil...
19	SIMANE GAYATRI SURESH	300	4246	Gayatri...
20	SURYAVANSHI PRERANA VIJAY	300	4247	Prerana...
21	SUTAR PRADIP SHRIKANT	300	4248	Pradip...
22	SUTAR ROHIT RAMCHANDRA	300	4249	Rohit...
23	THORVAT ADITYA SACHIN	300	4250	Aditya...
24	ZANJAGE PRATIK VIJAY	300	4251	Pratik...
Total		7200		

Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

Department of Statistics
Organised
Exploratory Data Analysis using MS-Excel
(Self - Funded Under COC)

Time Table 2023-24

	Venue	Date		12/10/2023	13/10/2023	14/10/2023	16/10/2023	17/10/2023	18/10/2023	19/10/2023	20/10/2023	21/10/2023	23/10/2023	25/10/2023	26/10/2023	27/10/2023	28/10/2023	30/10/2023
		Time																
Theory & Practice	Lab 1 (Stat.Lab.)	4.30 - 5.30	PSP	ASB	PSP	ASB	ASB	PSP	PSP	ASB	ASB	PSP	ASB	PSP	ASB	PSP	ASB	PSP

Sr. No.	Name of Lecturer	
1	ASB	Smt. Bhosale A. S.
2	PSP	Smt. Patil P. S.


Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

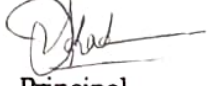

Principal,
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Kolhapur

Education through self-help is our motto"- KARMAVEER
Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics
Organized
"Exploratory Data Analysis Using MS-Excel"
STUDENT NOTICE

Date: 05/10/2023

All the students of B.C.S. I are informed that the Certificate course "Exploratory Data Analysis Using MS-Excel " is being started in our college by the Department of Statistics. All interested students should contact to course coordinator Mr. P. S. Chougule.


Head
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Principal,
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Kolhapur

रयत शिक्षण संस्थेचे
राजर्षी छत्रपती शाहू कॉलेज, कोल्हापूर
संख्याशास्त्र विभाग

२०२३-२४

दि. १४/७/२०२३

ठराव

सर्व विज्ञान विभाग प्रमुखांची बैठक मा. प्राचार्यच्या मार्गदर्शनाखाली दिनांक १४/७/२०२३ रोजी घेण्यात आली. सदर बैठकीमध्ये संख्याशास्त्र विभागामार्फत खालील शोर्ट टर्म कोर्सेस सुरु करण्याचे ठरले.

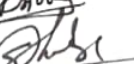
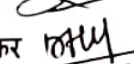
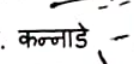
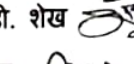
१. Application of Statistics in MS-Excel
२. Exploratory Data Analysis using MS-Excel
३. Computation of Statistics using R-Software
४. Certificate Course in Advanced Excel
- ५ Data analysis using SPSS

सदर कोर्ससकरिता खालील ठराव सर्वानुमते करण्यात आले

१. कोर्स क्र. १ व २ साठी रु ३०० व कोर्स क्र. ३, ४ व ५ साठी रु ५०० याप्रमाणे फी घेणेचे सर्वानुमते ठराविण्यात आले. तसेच जमा होणाऱ्या फी मधून कोर्स खर्च वजा जाता उर्वरित रकमेच्या ४०% रक्कम विभागातील काम करणाऱ्या तासिका तत्वावरील शिक्षकांना आणि बाहेरून येणाऱ्या तज्ञ शिक्षकांना सदर कोर्सेचे मानधन म्हणून समप्रमाणात विभागून देण्यात यावी असे सर्वानुमते ठरले.

२. या कोर्सेस करिता जास्तीत जास्त विद्यार्थी प्रवेश घेतील यासाठी विभागातील सर्व शिक्षकांनी प्रयत्न करावेत व सदर कोर्सेस चांगल्या पध्दतीने पार पाडण्यासाठीची जबाबदारी विभागप्रमुखावर सोपविण्यात आली.

वरील प्रमाणे ठराव सर्वानुमते मंजूर करण्यात आले.

- १) रसायनशास्त्र- प्रो. पी. बी. पिस्टे 
- २) भौतिकशास्त्र- डॉ. ए.आर.पाटील 
- ३) गणितशास्त्र- श्री. एस. डी. शेडगे 
- ४) वनस्पतीशास्त्र- डॉ. एस. डी. शेख 
- ५) प्राणीशास्त्र- श्रीमती डी. ए. मालवेकर 
- ६) शोर्ट टर्म कोर्सेस प्रमुख- डॉ. एम. के. कन्नाडे 
- ७) संख्याशास्त्र- श्री. पी. एस. चौगुले 
- ८) IQAC coordinator - डॉ. एस. डी. शेख 
- ९) अकौंट विभाग- श्री. आर. के. यादव 


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