

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

Organized
Application of MS-Excel in Statistics
Self - Funded under Short Term Courses in the academic year 2024-25

COURSE REPORT

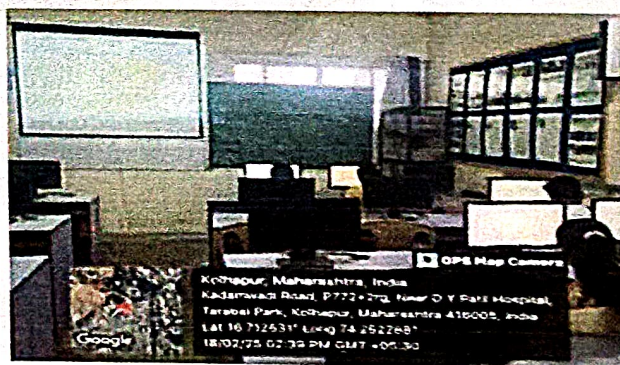
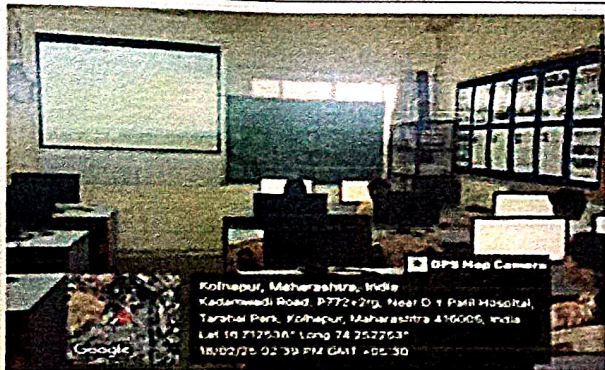
Department of statistics organized the certificate course in Advanced Excel in Statistics for B. Sc. I and B. Sc. II students for the academic year 2024-25. The main objectives of this course are:

- To indicate 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.

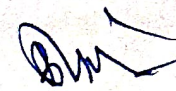
For this course fee of Rs.300 charged to the students. The course was conducted in the period of 10/02/2025 to 28/02/2025. Total number of beneficiaries for this course is 17. After completion of this course student's knowledge was checked through various computation tasks through assignments. Each student who successfully completed this course was awarded by certificate. Mr. Chougule P. S., Dr. Kurane T.S.(co-ordinator). Smt. Gadhari G. A. and Smt. Kamble S.M. worked as a Resource person for this course.

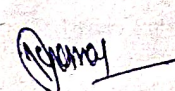
Outcomes: The students shall become confident and they acquire the knowledge requires to perform exploratory data analysis activities using MS-Excel.

**Total number of
beneficiaries is 17.**

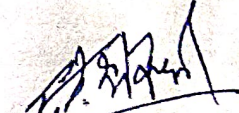



Dr. T.S. Kurane
Co-ordinator


Mr. P. S. Chougule
Head
Department of Statistics

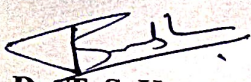

Dr. M.K. Kannade
Incharge
Short term Courses


Dr. U. S. Shelke
IQAC Co-ordinator

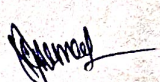

Prof. Dr. D. R. Bhosale
I/C Principal
R. C. Shahu College,
Kolhapur

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 Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics
 Organized
Application of MS-Excel in Statistics
 (Self – Funded)
 Under
 Short Term Courses
 2024-2025
Income and Expenditure Statement

Income	Amount (in Rs.)	Expenditure	Amount (in Rs.)
Particulars		Particulars	
1) Total Participants = 17 (17*300)	5100/-	1) GST 18%	918/-
		2) Certificate Printing	260/-
		2) Remuneration for Recourse Person Lumsum (40% of Total amount 3922/- is 1568/- is equally distributed into 2 persons)	
		i) Smt. Gadhari G.A.	784/-
		ii) Smt. Vhatkar D.S.	784/-
		3)Balance to College	2354/-
Total	5100=00	Total	5100=00


Dr. T. S. Kurane
 Coordinator
 Department of Statistics


Mr. P. S. Chougule
 Head
 Department of Statistics


Dr. M.K. Kannade
 In charge,
 Short Term Courses


Prof. Dr. D. R. Bhosale
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 R. C. Shahu College, Kolhapur

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Rayat Shikshan Sanstha's



RAJARSHI CHHATRAPATI SHAHU COLLEGE,

KOLHAPUR

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

DEPARTMENT OF STATISTICS

Certificate

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

and Participated/Delivered a Lecture as Resource Person/ Successfully Completed Certificate Course on
Application of MS-Excel in Statistics organized by Department of Statistics of Rajarshi Chhatrapati
Shahu College, Kolhapur from 10/02/2025 to 28/02/2025.

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

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

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

Dr. U. S. Shelke
IQAC
Coordinator

Prof. Dr. D. R. Bhosale
V/C Principal,
R. C. Shahu College, Kolhapur.

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Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics

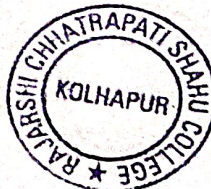
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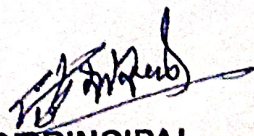
"Certificate course on Application of MS-Excel in Statistics"
Student Enrollment List

Sr. No.	Name of Student	Name of College	Fee
1	Munmun Ajay Singh	RCSC	300
2	Rutuja Bhauso Khot	RCSC	300
3	Vaishnavi Sarjerao Anuse	RCSC	300
4	Shraddha Dattatray Kumbhar	RCSC	300
5	Khadija Alfaj Shindi	RCSC	300
6	Aasiya Alfaj Shindi	RCSC	300
7	Priti David Chopade	RCSC	300
8	Aditya Suresh Jogi	RCSC	300
9	Sakshi Suryakant Patil	RCK	300
10	Shradha Ajit Bhalekar	RCK	300
11	Samiksha Suresh Pokale	RCK	300
12	Tanmay Tanaji Randive	RCK	300
13	Atharv Maruti Chandure	RCK	300
14	Rutuja Satish Mhaske	RCK	300
15	Pooja Shivaji Patil	RCK	300
16	Lokshita Pruthviraj Padval	RCK	300
17	Saniya Mubarak Mullani	RCK	300
Total Amount (in Rs.)			5100


Head

Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur




I/C PRINCIPAL
R.C. SHAHU COLLEGE
KOLHAPUR

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Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics
Organized

"Certificate course on Application of MS-Excel in Statistics"
Exam (2024-25)

Date: 25/02/2025

Time: 1 hour

Marks: 50

Q.1 Represent the following data using Sub-divided and Multiple Bar Diagram.

(10)

Class	F.Y.	S.Y.	T.Y.
Pass	300	325	210
Fail	100	125	90
Total	400	450	300

Q.2 Draw a Pie Diagram to represent the following data.

(10)

Group of items	Monthly Expenditure(in Rs.)
Food	1080
Clothing	648
House Rent	720
Fuel and Lightening	252
Others	900

Q. 3 Find A.M., S.D. and C.V. of the following data.

(10)

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

Q. 4 Find Correlation Coefficient between X and Y.

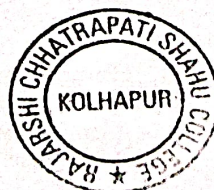
(10)

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 Obtain M.D. about mean, C.V. for the following data.

(10)

Class	10-15	15-20	20-25	25-30	30-35
Frequency	3	12	34	21	7



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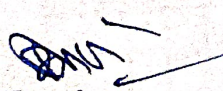
Rajarshi Chhatrapati Shahu College, Kolhapur

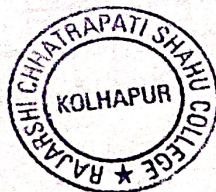
Department of Statistics

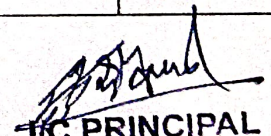
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"Certificate course on Application of MS-Excel in Statistics"
Result of Enrolled Students (2024-25)

Sr. No.	Name of Student	Name of College	Class	Marks
1	Munmun Ajay Singh	RCSC	B.Sc.I	42
2	Rutuja Bhauso Khot	RCSC	B.Sc.I	46
3	Vaishnavi Sarjerao Anuse	RCSC	B.Sc.I	49
4	Shraddha Dattatray Kumbhar	RCSC	B.Sc.I	48
5	Khadija Alfaj Shindi	RCSC	B.Sc.I	45
6	Aasiya Alfaj Shindi	RCSC	B.Sc.I	49
7	Priti David Chopade	RCSC	B.Sc.I	47
8	Aditya Suresh Jogi	RCSC	B.Sc.I	49
9	Sakshi Suryakant Patil	RCK	B.Sc.II	43
10	Shradha Ajit Bhalekar	RCK	B.Sc.II	44
11	Samiksha Suresh Pokale	RCK	B.Sc.II	46
12	Tanmay Tanaji Randive	RCK	B.Sc.II	48
13	Atharv Maruti Chandure	RCK	B.Sc.II	48
14	Rutuja Satish Mhaske	RCK	B.Sc.II	46
15	Pooja Shivaji Patil	RCK	B.Sc.II	47
16	Lokshita Pruthviraj Padval	RCK	B.Sc.II	43
17	Saniya Mubarak Mullani	RCK	B.Sc.II	44


Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

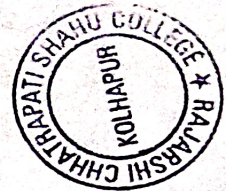



H.C. PRINCIPAL
R.C. SHAHU COLLEGE
KOLHAPUR

RAYAT SHIKSHAN SANSTHA'S
RAYAT SHIKSHAN SHAHU COLLEGE, KOLHAPUR
RAJARSHI CHHTRPATI SHAHU COLLEGE
DEPARTMENT OF STATISTICS

Certificate course on Applications of MS-Excel in Statistics (2024-25)

Sr.No.	Name of the Students	10/02/25	11/02/25	12/02/25	13/02/25	14/02/25	15/02/25	17/02/25	18/02/25
1	Mumun Ajay Singh	M.A. Singh	M.A. Singh	M.A. Singh	M.A. Singh	M.A. Singh	M.A. Singh	M.A. Singh	M.A. Singh
2	Rutuja Bhauso Khot	R.B. Khot	R.B. Khot	R.B. Khot	R.B. Khot	R.B. Khot	R.B. Khot	R.B. Khot	R.B. Khot
3	Vaishnavi Sarjerao Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse	S.A. Anuse
4	Shraddha Dattatray Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar	S.D. Kumbhar
5	Khadija Alfaj Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi	K.A. Shindi
6	Aasiya Alfaj Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi	A.A. Shindi
7	Priti David Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade	P.D. Chopade
8	Aditya Suresh Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi	A.S. Jogi
9	Sakshi Suryakant Patil	S.S. Patil	S.S. Patil	S.S. Patil	S.S. Patil	S.S. Patil	S.S. Patil	S.S. Patil	S.S. Patil
10	Shradha Ajit Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar	S.B. Bhalekar
11	Samiksha Suresh Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale	S.P. Pokale
12	Tanmay Tanaji Randive	T.R. Randive	T.R. Randive	T.R. Randive	T.R. Randive	T.R. Randive	T.R. Randive	T.R. Randive	T.R. Randive
13	Atharv Maruti Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure	A.M. Chandure
14	Rutuja Satish Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske	R.S. Mhaske
15	Pooja Shivaji Patil	P.S. Patil	P.S. Patil	P.S. Patil	P.S. Patil	P.S. Patil	P.S. Patil	P.S. Patil	P.S. Patil
16	Lekshita Pruthviraj Padval	L.P. Padval	L.P. Padval	L.P. Padval	L.P. Padval	L.P. Padval	L.P. Padval	L.P. Padval	L.P. Padval
17	Saniya Mubarak Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani	S.M. Mullani



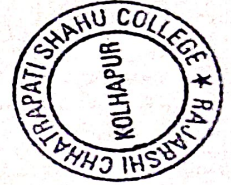
IC PRINCIPAL
R.C. SHAHU COLLEGE,
KOLHAPUR

Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

RAYAT SHIKSHAN SANSTHA'S
RAJARSHI CHHTRPATI SHAHU COLLEGE, KOLHAPUR
DEPARTMENT OF STATISTICS

Certificate course on Applications of MS-Excel in Statistics (2024-25)

Sr.No.	Name of the Students	18/02/2025	20/02/2025	21/02/2025	22/02/25	24/02/25	25/02/25	27/02/25	28/02/25
1	Munmun Ajay Singh	MA-Singh	MA-Singh	MA-Singh	MA-Singh	MA-Singh	MA-Singh	MA-Singh	MA-Singh
2	Rutuja Bhauso Khot	RB-Khot	RB-Khot	RB-Khot	RB-Khot	RB-Khot	RB-Khot	RB-Khot	RB-Khot
3	Vaishnavi Sarjerao Anuse	VA-Anuse	VA-Anuse	VA-Anuse	VA-Anuse	VA-Anuse	VA-Anuse	VA-Anuse	VA-Anuse
4	Shraddha Dattatray Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar	SD-Kumbhar
5	Khadija Alfaj Shindi	KS-Shindi	KS-Shindi	KS-Shindi	KS-Shindi	KS-Shindi	KS-Shindi	KS-Shindi	KS-Shindi
6	Aasiya Alfaj Shindi	AS-Shindi	AS-Shindi	AS-Shindi	AS-Shindi	AS-Shindi	AS-Shindi	AS-Shindi	AS-Shindi
7	Priti David Chopade	PC-Chopade	PC-Chopade	PC-Chopade	PC-Chopade	PC-Chopade	PC-Chopade	PC-Chopade	PC-Chopade
8	Aditya Suresh Jogi	AS-Jogi	AS-Jogi	AS-Jogi	AS-Jogi	AS-Jogi	AS-Jogi	AS-Jogi	AS-Jogi
9	Sakshi Suryakant Patil	SP-Patil	SP-Patil	SP-Patil	SP-Patil	SP-Patil	SP-Patil	SP-Patil	SP-Patil
10	Shradha Ajit Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar	SB-Bhalekar
11	Samiksha Suresh Pokale	SP-Pokale	SP-Pokale	SP-Pokale	SP-Pokale	SP-Pokale	SP-Pokale	SP-Pokale	SP-Pokale
12	Tanmay Tanaji Randive	TR-Randive	TR-Randive	TR-Randive	TR-Randive	TR-Randive	TR-Randive	TR-Randive	TR-Randive
13	Atharv Maruti Chandure	AC-Chandure	AC-Chandure	AC-Chandure	AC-Chandure	AC-Chandure	AC-Chandure	AC-Chandure	AC-Chandure
14	Rutuja Satish Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske	RM-Mhaske
15	Pooja Shivaji Patil	PS-Patil	PS-Patil	PS-Patil	PS-Patil	PS-Patil	PS-Patil	PS-Patil	PS-Patil
16	Lakshita Pruthviraj Padval	LP-Padval	LP-Padval	LP-Padval	LP-Padval	LP-Padval	LP-Padval	LP-Padval	LP-Padval
17	Saniya Mubarak Mullani	SM-Mullani	SM-Mullani	SM-Mullani	SM-Mullani	SM-Mullani	SM-Mullani	SM-Mullani	SM-Mullani



[Signature]

Head
 Department of Statistics
 Rajarshi Chh. Shahu College, Kolhapur

[Signature]
HC PRINCIPAL
R.C. SHAHU COLLEGE
KOLHAPUR

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Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics

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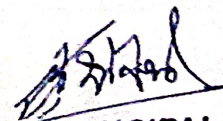
"Application of MS-Excel in Statistics"
Student Enrollment List

Sr. No.	Name of Student	Name of College	Fee	Signature of student
1	Munmun Ajay Singh	RCSC	300	<u>M.A. Singh</u>
2	Rutuja Bhauso Khot	RCSC	300	<u>R.B. Khot</u>
3	Vaishnavi Sarjerao Anuse	RCSC	300	<u>Vaishnavi</u>
4	Shraddha Dattatray Kumbhar	RCSC	300	<u>S.D. Kumbhar</u>
5	Khadija Alfaj Shindi	RCSC	300	<u>K. Shindi</u>
6	Aasiya Alfaj Shindi	RCSC	300	<u>A. Shindi</u>
7	Priti David Chopade	RCSC	300	<u>P. Chopade</u>
8	Aditya Suresh Jogi	RCSC	300	<u>A.S.J.</u>
9	Sakshi Suryakant Patil	RCK	300	<u>S. Patil</u>
10	Shradha Ajit Bhalekar	RCK	300	<u>S. Bhalekar</u>
11	Samiksha Suresh Pokale	RCK	300	<u>S. Pokale</u>
12	Tanmay Tanaji Randive	RCK	300	<u>T. Randive</u>
13	Atharv Maruti Chandure	RCK	300	<u>A. Chandure</u>
14	Rutuja Satish Mhaske	RCK	300	<u>R. Mhaske</u>
15	Pooja Shivaji Patil	RCK	300	<u>P. Patil</u>
16	Lakshita Pruthviraj Padval	RCK	300	<u>L. Padval</u>
17	Saniya Mubarak Mullani	RCK	300	<u>S. Mullani</u>
Total Amount (in Rs.)			5100	


Head

Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur




PRINCIPAL
R.C. SHAHU COLLEGE
KOLHAPUR

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Department of Statistics

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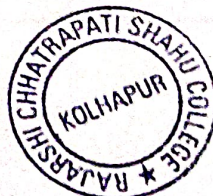
"Certificate course on Application of MS-Excel in Statistics"

List of Enrolled Students(2024-25)

Sr. No.	Name of Student	Name of College	Class	Receipt No.	Signature of student
1	Munmun Ajay Singh	RCSC	B.Sc.I	6942	<u>M.A. Singh</u>
2	Rutuja Bhauso Khot	RCSC	B.Sc.I	6943	<u>Rutuja</u>
3	Vaishnavi Sarjerao Anuse	RCSC	B.Sc.I	6944	<u>Vaish</u>
4	Shraddha Dattatray Kumbhar	RCSC	B.Sc.I	6945	<u>S.D. Kumbhar</u>
5	Khadija Alfaj Shindi	RCSC	B.Sc.I	6946	<u>Khadija</u>
6	Aasiya Alfaj Shindi	RCSC	B.Sc.I	6947	<u>Ashindi</u>
7	Priti David Chopade	RCSC	B.Sc.I	6948	<u>Priti</u>
8	Aditya Suresh Jogi	RCSC	B.Sc.I	6949	<u>Aditya</u>
9	Sakshi Suryakant Patil	RCK	B.Sc.II	6950	<u>Sakshi</u>
10	Shradha Ajit Bhalekar	RCK	B.Sc.II	6951	<u>Shradha</u>
11	Samiksha Suresh Pokale	RCK	B.Sc.II	6952	<u>Pokale</u>
12	Tanmay Tanaji Randive	RCK	B.Sc.II	6953	<u>T.T. Randive</u>
13	Atharv Maruti Chandure	RCK	B.Sc.II	6954	<u>Atharv</u>
14	Rutuja Satish Mhaske	RCK	B.Sc.II	6955	<u>Rutuja S.M.</u>
15	Pooja Shivaji Patil	RCK	B.Sc.II	6956	<u>Patil</u>
16	Lokshita Pruthviraj Padval	RCK	B.Sc.II	6957	<u>Lokshita</u>
17	Saniya Mubarak Mullani	RCK	B.Sc.II	6958	<u>Saniya</u>

Head

Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur



I/C PRINCIPAL

R.C. SHAHU COLLEGE
KOLHAPUR

Rayat Shikshan Sanstha'
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Statistics

Organised

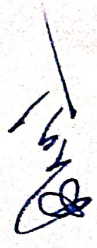
Certificate Course on Application of MS-Excel in Statistics
(Self - Funded Under COC)

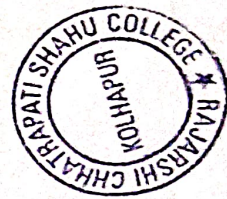
Time Table 2024-25

	Venue	Date Time	10/2/2025	11/2/2025	12/2/2025	13/2/2025	14/2/2025	15/2/2025	17/2/2025	18/2/2025
Theory & Practical	Lab 1 (Stat.Lab.)	4.00 - 5.30	GAG	DSV	GAG	GAG	DSV	GAG	DSV	GAG

	Venue	Date Time	20/2/2025	21/2/2025	22/2/2025	24/2/2025	25/2/2025	27/2/2025	28/2/2025
Theory & Practical	Lab 1 (Stat.Lab.)	4.00 - 5.30	DSV	GAG	DSV	GAG	DSV	GAG	DSV

Sr. No.	Name of Lecturer	
1	GAG	Smt. Gadhari G. A.
2	DSV	Smt. Vhatkar D. S.


Head
Department of Statistics
Rajarshi Chh. Shahu College, Kolhar




HC PRINCIPAL
R.C. SHAHU COLLEGE
KOLHAPUR

**RAYAT SHIKSHAN SANSTHA'S
RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR
DEPARTMENT OF STATISTICS
B.Sc. I (2024-25)**

NOTICE

All students of B.Sc. I hereby informed that, your “**Application of MS-Excel in Statistics**” organized by Department of Statistics, will be start from 01/10/2024. The course will be conducted in Statistics lab from 4:00 PM to 5:30 PM. All students are requested to attend the course regularly and actively participate.




Head

Department of Statistics
Rajarshi Chh. Shahu College, Kolhapur

रयत शिक्षण संस्थेचे
राजर्षी छत्रपती शाहू कॉलेज, कोल्हापूर
शॉर्ट टर्म/सीओसी कोर्सेस फी आणि त्याच्या खर्चाबाबतचा ठराव

प्रस्ताव : महाविद्यालयातील विद्यार्थिनींनी पारंपरिक शिक्षणाबरोबरच विविध कौशल्ये आत्मसात करून त्यांनी आत्मनिर्भर व्हावे यासाठी महाविद्यालयात एकूण 22 शॉर्ट टर्म कोर्स व ३ सी. ओ. सी. कोर्स राबविले जात आहेत. या शॉर्ट टर्म व सी. ओ. सी. कोर्सेस साठी महाविद्यालयातील विद्यार्थी प्रवेशित होत असतात. या कोर्स साठी रु. ३००/- एवढी फी प्रति विद्यार्थी आकारली जाते. सदर प्रत्येक कोर्समधून जमा होणाऱ्या फी पैकी GST व प्रमाणपत्र खर्च वजाकरता उर्वरित रकमेच्या ४०% रक्कम कोर्सच्या मानधनासाठी खर्च करावी व ६०% रक्कम महाविद्यालयाच्या विकासासाठी खर्च करण्यात यावी.

तांत्रिक माहिती: महाविद्यालयात कला, वाणिज्य, विज्ञान, बी.एस्सी.कॉम्प्युटर सायन्स, बी.एस्सी.कॉम्प्युटर सायन्स (इन्टायर) तसेच एम.ए. इंग्लीश, एम.कॉम.(आएटी), एम. एस्सी.केमिस्ट्री, एम. एस्सी. संख्याशास्त्र इ. विद्याशाखांमध्ये महाविद्यालयाचे शैक्षणिक कामकाज सुरू आहे. चालू वर्षात महाविद्यालयात एकूण १२३२ विद्यार्थिनींनी प्रवेश घेतला आहे. तसेच विद्यार्थ्यांना विद्यापीठाच्या अभ्यासक्रमाव्यतिरिक्त त्यांच्या विषयाच्या अनुषंगाने तसेच इतर कौशल्य विकसित व्हावित यासाठी गेली अनेक वर्षे महाविद्यालयातील विद्यार्थिनींना खालील शॉर्ट टर्म व सी. ओ. सी. कोर्सेसची संधी उपलब्ध करून देण्यात आली आहे. यामध्ये

Sr.No	Course Name	Fee
1	Biodiversity Conservation	300/-
2	Understanding of Basic Electronics Devices	300/-
3	Secretarial Training	300/-
4	Preparation of Household Chemical	300/-
5	Mudritshoduan koushalya (मुद्रितशोधन)	300/-
6	Application of MS.Excel in Statistics	300/-
7	Advanced Excel	500/-
8	Computation of statistics using R-Software	500/-
9	Exploratory Data Analysis Using MS- Excel	300/-
10	Computation of Statistics using open source software	500/-
11	Entrepreneurs Development	300/-
12	Retail Marketing	300/-
13	Yoga & meditation	300/-
14	Introducing Forts in Maharashtra	300/-
15	Event Management	300/-
16	Foundry Technology	300/-
17	Anuvad Siddhant Aur Prayog (अनुवाद सिद्धांत और प्रयोग),	300/-
18	Certificate course in Vermitechnology	300/-
19	Fashion Designing	300/-
20	Beauty Parlour	1,000/-
21	Basic using PHP Programming Lanuguage	300/-
22	Surveying	300/-

यासारखे कोर्सेस उपलब्ध करून दिले जातात. सदर शॉर्ट टर्म व सी. ओ. सी. कोर्सेस पूर्ण करून महाविद्यालयातील अनेक विद्यार्थ्यांनी स्वतःचे व्यवसाय सुरू करून ते स्वावलंबी होऊ शकतात.

आर्थिक तरतूद : महाविद्यालयामध्ये प्रवेश घेतलेल्या विद्यार्थ्यांपैकी जे विद्यार्थी सदर कोर्सेस साठीही प्रवेश घेतात त्या विद्यार्थ्यांकडून प्रति विद्यार्थी प्रति कोर्स साठी रुपये ३००/- या प्रमाणे फी आकारली जाते सदर प्रत्येक कोर्समधून जमा होणाऱ्या फी पैकी GST व प्रमाणपत्र खर्च वजाकरता उर्वरित रकमेच्या ४०% रक्कम कोर्सच्या मानधना साठी खर्च करावी व ६०% रक्कम महाविद्यालयाच्या विकासासाठी खर्च करण्यास यावी.

कार्यालयाचे मत: महाविद्यालयामध्ये सुरू असलेले शॉर्ट टर्म व सी. ओ. सी. कोर्सेस हे विद्यार्थिनींच्याबरोबरच महाविद्यालयाच्या विकासासाठी उपयुक्त आहेत. या माध्यमातून अनेक विद्यार्थ्यांना आपले स्वतंत्र व्यवसाय सुरू केले आहेत. त्यामुळे सदर शॉर्ट टर्म कोर्सेसमधून विद्यार्थिनींच्या कौशल्याबरोबरच महाविद्यालयास चांगल्या प्रकारचे उत्पन्न प्राप्त होत असते. सदर उत्पन्नातून प्रत्यक्ष खर्च करण्यात येणाऱ्या ४०% रकमेचे खर्चाची विवरण खालील प्रमाणे करण्यात यावा

1. जमा होणाऱ्या फी पैकी GST व प्रमाणपत्र खर्च वजाकरता उर्वरित रकमेच्या ४०% रक्कम, व कोर्स अध्यापन, मानधन, स्टेशनरी, पुस्तके व अनुषंगिक इतर सर्व खर्च
2. जमा होणाऱ्या फी पैकी GST व प्रमाणपत्र खर्च वजाकरता उर्वरित रकमेच्या ४०% रक्कम वजा करता उर्वरित ६०% रक्कम महाविद्यालयात जमा करावी.

ठराव: महाविद्यालयाच्या सर्व विभागप्रमुखांची मिटींग मा. प्राचार्य उपस्थितीत दिनांक २०/१२/२०२४ रोजी पार पडली. सदर मिटींगमध्ये चर्चा करून सर्वानुमते महाविद्यालयामध्ये सुरू असलेले शॉर्ट टर्म व सी. ओ. सी. कोर्सेस हे विद्यार्थिनींच्याबरोबरच महाविद्यालयाच्या विकासासाठी उपयुक्त आहेत. त्यामुळे सदर शॉर्ट टर्म कोर्सेसमधून विद्यार्थिनींच्या कौशल्याबरोबरच महाविद्यालयास चांगल्या प्रकारचे उत्पन्न प्राप्त होत असते. त्यामुळे सदर कोर्सेस चालू करावेत व प्रति कोर्सेसकरिता रुपये ५०० फी घ्यावी व त्या जमा होणाऱ्या एकूण फी च्या मधून GST व प्रमाणपत्र खर्च वजाकरता उर्वरित रकमेच्या ४०% रक्कम ही कोर्स अध्यापन, मानधन, स्टेशनरी, पुस्तके व अनुषंगिक इतर बाबींवर खर्च करावी व उर्वरित उर्वरित ६०% रक्कम महाविद्यालयात जमा करावी. असे सर्वानुमते ठरले. सदर मिटींग करिता खालील विभाग प्रमुख उपस्थितीत होते करण्यास महाविद्यालय विकास समितीची मान्यता देण्यात येत आहे.

सूचक: डॉ. लवेकर एस. एस.

अनुमोदक : डॉ. पाटील आर. सी.

ठराव सर्वानुमते मंजूर

सदर मिटींग करिता खालील विभाग प्रमुख उपस्थितीत होते

- 1) प्रो. डॉ. देसाई एम. बी.
- 2) प्रो. डॉ. खोले एस. सी.
- 3) प्रो. डॉ. पीस्ते पी. बी.
- 4) श्री. चौगुले पी. एस.
- 5) डॉ. कन्नाडे एम. के.
- 6) डॉ. कदम एम. डी.
- 7) डॉ. लवंगारे जी. एम.
- 8) डॉ. फरास एस. ए.
- 9) डॉ. लवेकर एस. एस.
- 10) डॉ. पाटील आर. सी.
- 11) डॉ. पाटील ए. आर.
- 12) डॉ. शेख एस. डी.
- 13) श्री. शेडगे एस. डी.
- 14) श्रीमती शेख झेड. जे.
- 15) श्रीमती मालवेकर डी. ए.

प्र. प्राचार्य
राजर्षी छ. शाह कॉलेज,
कोल्हापूर

राजर्षी छत्रपती शाहू कॉलेज, कोल्हापूर

**"Education through self-help is our motto"-Karmveer
Rayat Shikshan Sanstha's**

Department of Statistics
Information regarding Skill Development Courses/Career Oriented Courses

Name of the Department: Department of Statistics

Course name: Application of MS-Excel in Statistics

Course Implementation Year: 2017

Course Coordinator name & Contact number: Dr. Tejaswi S. Kurane (8928650101)

Duration: 15 days

Course Fee: Rs. 300/-

Eligibility: It's suitable for graduate and researchers from any field that uses statistical computing.

Minimum intake Capacity: 20

Objectives of the Course:

This course aims to provide knowledge about how to

- Apply advanced formulas to lay data in readiness for analysis
- Use advanced techniques for report visualizations
- Understand various statistical methodologies of summarizing data

Learning Outcomes: At the end of the course, students should be able to:

- Import and export data from other applications.
- Share workbooks with others.
- Identify the different components of the Excel worksheet.
- Open an existing workbook and create a new workbook
- Save and print workbooks.
- Enter text and formulas in to an Excel spreadsheet
- Work with cell references.

- Create a spreadsheet to tabulate and record numeric values
- Learn to use functions and formulas.
- Create and edit charts and graphics.
- Create, sort, and filter table data
- Differentiate between formulas and functions in Excel.
- Save and print workbooks.
- Construct formulas, including the use of built-in functions, and relative and absolute references.
- Create charts and share information.

Syllabus:

1. Why Microsoft Excel?

1.1 Introduction to Ms-Excel, features of Ms-Excel, starting and ending of Ms-Excel, getting help in Ms-Excel.

1.2 workbooks and worksheets, moving the cell pointer, Excel file operations, opening file, entering data, text entry, text editing, copying cells contents, spell check, formatting numbers in cells, cells merging, alignment property page,

1.3 Writing and using formulae in Excel

1.4 Mathematical and Statistical Functions using Excel.

a) Absolute value, combination, Exponent, Factorial, multinomial, Random numbers, Square root, sum.

b) Statistical Functions: Mean, geometric mean, Harmonic mean, mode, median, quartile, deciles, percentiles, variance.

2. Diagrams:

Simple bar diagram, sub-divided bar diagram, multiple bar diagram, Pie diagram

3. Graphs:

Histogram (both equal and unequal class intervals), frequency polygon, ogive curves, empirical distribution function.

4. Measures of central Tendency:

Computation of following measures for all types of data. Mean, mode, median, quartiles, Deciles, Percentiles, Geometric mean, Harmonic mean.

5. Measures of dispersion: Computation of following measures for all types of data. Range, Quartile Deviation, Variance, Standard Deviation, Coefficient of Variation, Mean Deviation, Mean Squared Deviation.
6. Measures of Skewness and Kurtosis: Bowley's coefficient and Karl Pearson's coefficient of Skewness.
7. Moments: Computation of Raw and central moments, measures of Skewness and kurtosis
8. Correlation and Regression Fitting of lines of regression, computation of correlation coefficient, fitting of second curve.

Time table:

January – February

Nature of Examination:

Written and Practical examination consisting of Multiple-Choice Questions worth 50 Marks.

