

Sree Narayana College, Kollam

2020-2021

Department of Mathematics

Certificate Course Syllabus

Title of the Course: Data Analysis using Microsoft Excel

Contact Hours: 30 hr [15(T) + 15(P)]

Module 1 : Charts and Diagrams (5 hr)

1. Bar diagrams

1.1 Methods for drawing different bar diagrams using Excel tools.

2. Pie diagrams and Scatter diagram

2.1 Methods for drawing diagrams using Excel tools.

3. Histogram

3.1 Methods to install Data analysis tool pack in Excel.

3.2 Methods to construct frequency tables in Excel.

3.3 Methods for drawing Histogram using Data analysis functions.

Module 2 : Descriptive Statistics (4hr)

1. Mean, Median, Mode

1.1 Methods to find Mean, Median, Mode using Data analysis in Excel.

Module 3 : Correlation and Regression (3hr)

1. Correlation

1.1 Methods for finding correlation using Data analysis tool pack.

Thiruvalluvar
Principal
Sree Narayana College
Kollam



2. Regression

2.1 Methods to find regression using Data analysis tool pack.

Module 4: ANOVA (3hr)

1. One way ANOVA

1.1 Methods for finding ANOVA single factor (one way ANOVA).

1.2 Result analysis for One way ANOVA.

2. Two way ANOVA

2.1 Methods to find two way ANOVA with and without replications.

2.2 Result analysis for two way ANOVA.

REFERENCES

1. Dan Remenyi, George Onofrei, Joe English (2010). *An Introduction to Statistics Using Microsoft Excel*. Academic Publishing Ltd., UK

2. Neil J Salkind (2010). *Excel Statistics, A Quick Guide*. SAGE Publication Inc. New Delhi

3. Vijai Gupta (2002). *Statistical Analysis with Excel*. VJ Books Inc. Canada

Sree Narayana College, Kollam

Department of Mathematics

2020-2021

Certificate Course Syllabus

Title of the Course: Data Analysis using Microsoft Excel

Aim of the Course

1. This Course is aimed at familiarizing participants to the use of advanced excel formulas and features in intensive data analysis and equips the participants to the use of data analysis as a tool for their project work.
2. Data analysis helps teachers understand their students' learning abilities and challenges, and facilitates an ingrained cultural process that uses detailed inputs (information) to ensure optimal outputs

Objective of the course

- To teach the participants advanced Excel functions.

Outcome of the course

- Through the use of data analysis, **project managers can better meet stakeholder expectations—ultimately improving project operations and outcomes.** As a result, they're able to closely monitor and ensure high-quality deliverables. As a project manager, you'll find that data analysis plays a big part in your success

Department of Mathematics SN College Kollam

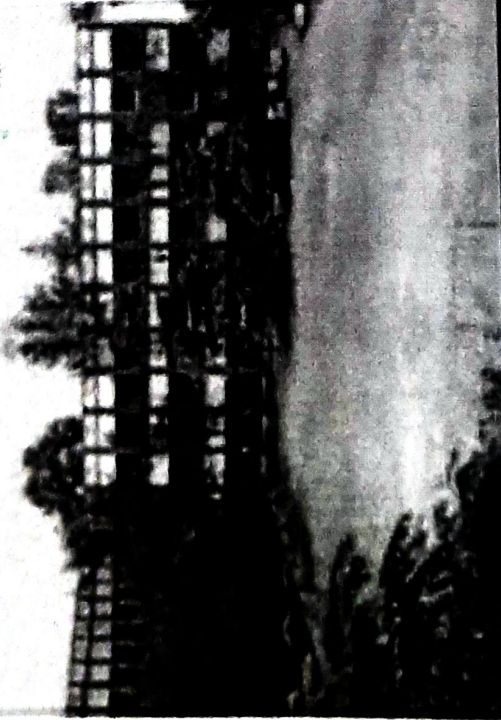
Certificate course :-Data Analysis Using Microsoft Excel
2020-2021

List of Members of Board of Studies

Name	Designation	Position held
Ravivarma B	Assistant Professor, S.N. College, Kollam	Chairman
Kuleena Das	Assistant Professor, S.N. College, Kollam	Member
Vivek PV	Assistant Professor, S.N. College, Kollam	Member
Midhun S	Assistant Professor, S.N. College, Kollam	Member
Niza N	Assistant Professor, T.K.M. College, Kollam	Member
Harilal N Thazhikkattuzeril	Assistant Professor, T.K.M. College, Kollam	Member
Midhun S	Assistant Professor, T.K.M. College, Kollam	Member
Miithun A T	Assistant Professor, T.K.M. College, Kollam	Member
Dr.Akhila .R	Assistant Professor, T.K.M. College, Kollam	Member

**We are the shapers
of great minds and
honourable values.**

Sree Narayana College, Kollam



**Contact us : Ravivarama B
Contact no: 9496107224**

SREE NARAYANA COLLEGE KOLLAM

**(Affiliated to the university of kerala)
Reaccredited by NAAC with 'A' Grade**

Atal Ranking : A Band



**COLLEGE - LEVEL CERTIFICATE COURSE
ON**

"DATA ANALYSIS USING MICROSOFT EXCEL"

Department of Mathematics(2020-21)

SREE NARAYANA COLLEGE, KOLLAM

NOTICE

A meeting of the certificate course Board of studies members will be held on 28/01/2021 at 1.30pm in computer lab, Department of mathematics. All the members are requested to attend the meeting without fail.

Agenda:

1. Commencement of certificate course

Copy to all members

S.N .College, Kollam

27/01/2021


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NOTICE

A meeting of the certificate course Board of studies members will be held on 26 /03/2021 at 1.30pm in computer lab, Department of mathematics. All the members are requested to attend the meeting without fail.

Agenda:

1. Publishing results of certificate course

Copy to all members

S.N .College,Kollam

25/03/2021


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List of Students Applied for Certificate Course : Data Analysis using microsoft Excel(2020-2021)

Sl No	Name	Candidate Code	Department
1	Riya Roy	22020132051	Bsc.Mathematics
2	Sayana pramod	22019132062	Bsc mathematics
3	Saeeda Nizam	22020132013	Bsc maths
4	Abhijith S	22020132001	Bsc. Maths
5	GOURI.S.D	22020132039	2nd yr Mathematics
6	Gowry S	32819132027	PCA
7	Varsha.R	22020132056	Bsc Mathematics
8	Kripa sajan	22019132046	Bsc Mathematics
9	AmruthaJ	22019132029	BSc Mathematics
10	Souparnika R.B.	32819132036	PCA
11	Athira Mohan	32819132020	PCA
12	Gowree Nandana D P	22019132043	Bsc mathematics
13	Reshmi Mohan	15019132067	BA Economics
14	Gayathri S	32819132003	BSC PCA
15	Fathima Shaji	15019132049	BA Economics
16	Abhiramy V R	22020132022	BSc Mathematics
17	Reshmi Mohan	15019132067	BA ECONOMICS
18	Athul S	22019132038	Bsc mathematics
19	Anjali Reghu	32819132016	Bsc PCA
20	Devika. P	22020132037	Bsc. Mathematics
21	Anandha Krishnan R	22020132026	Bsc mathematics
22	AISWARYA M	22020132002	Bsc mathematics
23	Sneha R Sunil	22020132016	Bsc. Mathematics
24	Lekshmi DS	15019132058	BA Economics
25	Sreelakshmi P	22020132055	Bsc mathematics
26	Anuja D	15019132008	BA Economics
27			
28			

Student details Certificate Course Data Analysis using microsoft Excel.....2020-2021

SI No	Name	Candidate Code	Course	Semester	Address	Mobile Number	Email ID
1	Riya Roy	22020132051	Bsc. Mathematics	3 rd	Kalluvila Peedikayil, Alummoodu P.O Mukhathala, Kollam.	7736989568	riyacroy2001@gmail.com
2	Sayana pramod	22019132062	Bsc mathematics	5th	Chavara bridge po Kollam	7025051920	Sayananila56@gmail.com
3	Saeeda Nizam	22020132013	Bsc maths	S1	Nizam manzil, thazhuthala, kottiyam po kollam	8590713234	saeedanizam7@gmail.com
4	Abhijith S	22020132001	Bsc. Maths	S 1	Ushamandiram edayam po edayam	8590951177	shajiabhijith94@gmail.com
5	GOURI.S.D	22020132039	2nd yr Mathematics	1st sem	Gourimandhiram, Edayam P.O Edayam	7561082524	gourigouri202@gmail.com
6	Gowry S	32819132027	BSc Physics and Com	S3	Palavila Veedu, Punnamoodu, Varkala	8136950275	gowrysubhash02@gmail.com
7	Varsha.R	22020132056	Bsc Mathematics	First semester	Vayalil padinjattathil prakkulam po kollam	7559085849	Varshasree.panayam@gmail.com
8	Kripa sajan	22019132046	Bsc Mathematics	S3	Puthen Bunglow, kureppally, kannanalloor, p. o. Kollam.	9400542715	Kripasajan80@gmail.com
9	Amruthal	22019132029	BSc Mathematics	4	Sheejamandiram, kudavattoorPO, kudavattoor	9544699536	amruthaj2812@gmail.com

10	Souparnika R.B.	32819132036	BSc Physics and Com	3	Vallyazhikathu thekkathil house, Superlor nagar , kureepuzha east, kavanade P O, kollam-03	9539261042	souparnikarb714@gmail.com
11	Athira Mohan	32819132020	Bsc physics and com	3	Charuvila puthen veedu sithara junction kottiyam po kollam	9746191650	adhimohanachu2002@gmail.com
12	Gowree Nandana	22019132043	Bsc mathematics	S3	Lekshmiyil Eravichira West Patharam P O	9747690932	gowreenandanadp@gmail.com
13	Reshmi Mohan	15019132067	BA Economics	5th semester	Reshmi Bhavan,Thundil thekkathil Thazhuthala Kottiyam po	8921387532	reshmirmohan3@gmail.com
14	Gayathri S	32819132003	BSC PCA	Third semester	Vasanthalayam, S.V nagar 5, Ayathil PO , Kollam-691021	9495154897	sreelethapunnithan@gmail.com
15	Fathima Shaji	15019132049	BA Economics	3	Fathimas, Edamulackal, Edamulackal (po), Anchal, Kollam	9188489794	fathimashaji661@gmail.com
16	Abhiramy V R	22020132022	BSc Mathematics	1	Abhinivas Neendakara Puthenthura P O Kollam	8078885692	abhiramyabhi881@gmail.com
17	Reshmi Mohan	15019132067	BA ECONOMICS	3rd semester	Reshmi Bhavan Thundil thekkathil Thazhuthala Kottiyam po	8921387532	reshmirmohan3@gmail.com
18	Athul S	22019132038	Bsc mathematics	S3	Sreehari kadavanathekathil kilikallor Priyadarshini nagar 72 D	9747083794	athulkunju987@gmail.com
19	Anjali Reghu	32819132016	Bsc PCA	3	Kizhakke pochayil veedu thekkevila , thekkenagar 246,po kollam 691016	9947978765	anjali reghu19@gmail.com
20	Devika. P	22020132037	Bsc. Mathematics	1	Kalluvila Melathil, Kottathala (PO) kottarakara	9633086937	devikaprinisuresh@gmail.com

21	Anandha Krishnan	22020132026	Bsc mathematics	1st	Changayil padinjattathil Tkmcpo karicode kollam	8137035277	anandhak646@gmail.com
22	AISWARYA M	22020132002	Bsc mathematics	First	Aiswarya vilasam vettilathazham Decent junction	8086813164	aiswaryam9182@gmail.com
23	Sneha R Sunil	22020132016	Bsc. Mathematics	First	Snehasoorya, Punthalathazham nagar 192A, Kilikolloor P. O, Kollam	6238193263	sneharsunil11@gamil.com
24	Lekshmi DS	15019132058	BA Economics	First	Lekshmi nivas, karmkonam, kollam	7356698799	lechu30112001@gmail.com
25	Sreelakshmi P	22020132055	Bsc mathematics	First	Mavannoor, Kuthyrapanthy p o Thazhava	8301919707	sreelekshnipmalu@gmail.com
26	Anuja D	15019132008	BA Economics	First	Anuja bhavan, kudavattor po, kollam	7525146520	anujad2000@gmail.com

Certificate Course (2020-2021)

Data

Analysis using microsoft Excel

Selection list of students

Sl No	Name	Candidate Code	Department
1	Riya Roy	22020132051	Bsc.Mathematics
2	Sayana pramod	22019132062	Bsc mathematics
3	Saeeda Nizam	22020132013	Bsc maths
4	Abhijith S	22020132001	Bsc. Maths
5	GOURI.S.D	22020132039	2nd yr Mathematics
6	Gowry S	32819132027	PCA
7	Varsha.R	22020132056	Bsc Mathematics
8	Kripa sajan	22019132046	Bsc Mathematics
9	Amruthal	22019132029	BSc Mathematics
10	Souparnika R.B.	32819132036	PCA
11	Athira Mohan	32819132020	PCA
12	Gowree Nandana D P	22019132043	Bsc mathematics
13	Reshmi Mohan	15019132067	BA Economics
14	Gayathri S	32819132003	BSC PCA
15	Fathima Shaji	15019132049	BA Economics
16	Abhiramy V R	22020132022	BSc Mathematics
17	Reshmi Mohan	15019132067	BA ECONOMICS
18	Athul S	22019132038	Bsc mathematics
19	Anjali Reghu	32819132016	Bsc PCA
20	Devika. P	22020132037	Bsc. Mathematics
21	Anandha Krishnan R	22020132026	Bsc mathematics
22	AISWARYA M	22020132002	Bsc mathematics
23	Sneha R Sunil	22020132016	Bsc. Mathematics
24	Lekshmi DS	15019132058	BA Economics
25	Sreelakshmi P	22020132055	Bsc mathematics
26	Anuja D	15019132008	BA Economics

Reljap.
Sayana
Abhijith
Gouri
Vaacha
Sourparnika
Reshmi
Gayathri
Fathima
Abhiram
Reshmi
Athul S
Anjali
Devika
Anandha
Aiswarya
Sneha
Lekshmi
Sreelakshmi
Anuja

Certificate Course (2020-2021)**Data****Analysis using microsoft Excel****list of students passed**

Sl No	Name	Candidate Code	Department
1	Riya Roy	22020132051	Bsc.Mathematics
2	Sayana pramod	22019132062	Bsc mathematics
3	Saeeda Nizam	22020132013	Bsc maths
4	Abhijith S	22020132001	Bsc. Maths
5	GOURI.S.D	22020132039	2nd yr Mathematics
6	Gowry S	32819132027	PCA
7	Varsha.R	22020132056	Bsc Mathematics
8	Kripa sajan	22019132046	Bsc Mathematics
9	AmruthaJ	22019132029	BSc Mathematics
10	Souparnika R.B.	32819132036	PCA
11	Athira Mohan	32819132020	PCA
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23	Sneha R Sunil	22020132016	Bsc. Mathematics
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25	Sreelakshmi P	22020132055	Bsc mathematics
26	Anuja D	15019132008	BA Economics

SREE NARAYANA COLLEGE
KOLLAM
DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE (2020-2021)
DATA ANALYSIS USING MICROSOFT EXCEL

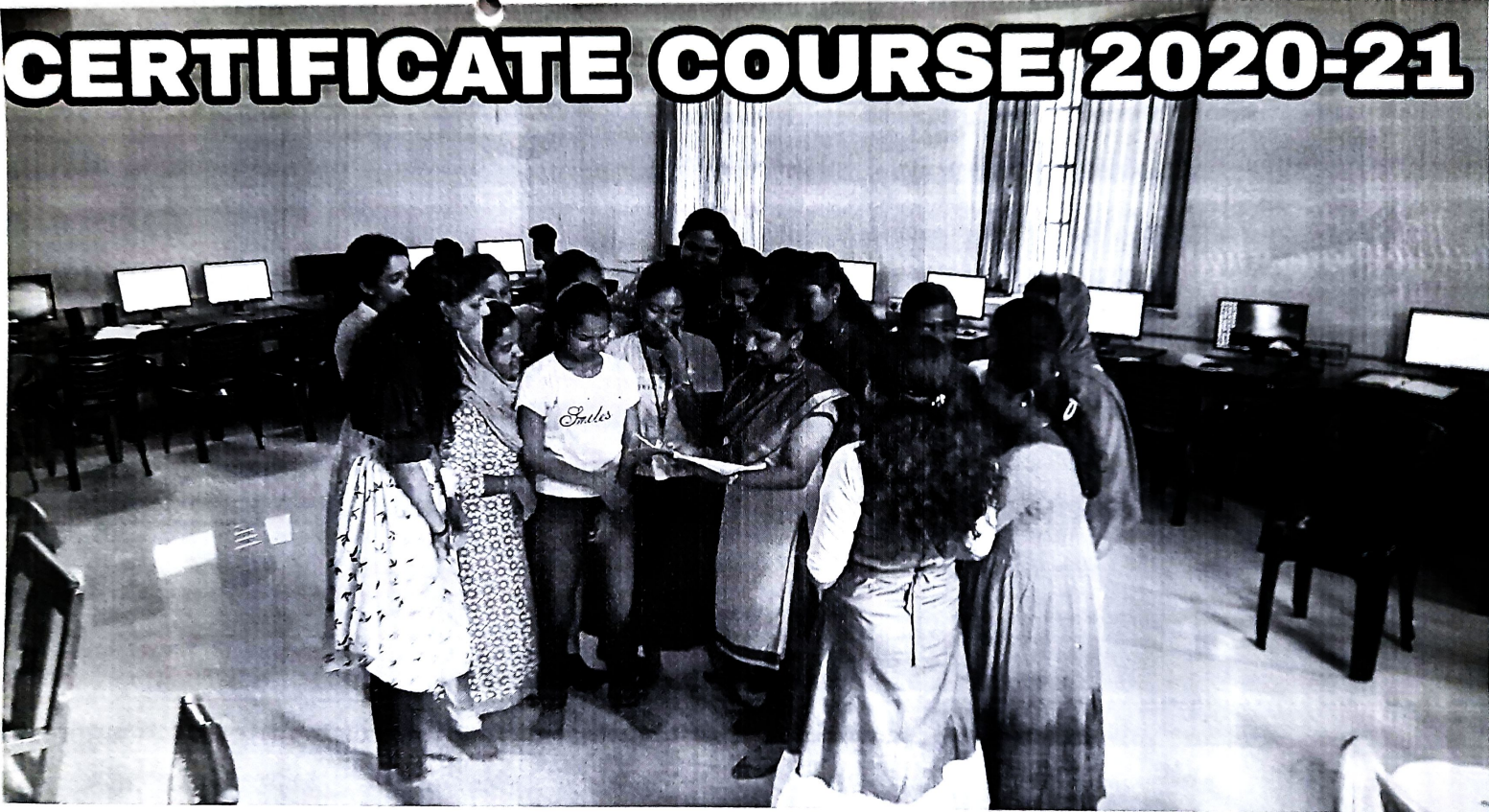
LIST OF TEACHERS HANDLING THE COURSE

1.ANUJA.S (Guest lecturer , Department of mathematics)

Sheet1

CERTIFIED COURSE STUDENTS MARK LIST 2020-2021					
Sl no	Name	Class	TOTAL MARKS	MARKS OBTAINED	Passed/Failed
1	Kripa sajan	Mathematics	50	50	Passed
2	Reshmi Mohan	Economics	50	49	Passed
3	Sayana pramod	Mathematics	50	50	Passed
4	AmruthaJ	Mathematics	50	50	Passed
5	Gouri.S.D	Bsc maths	50	49	Passed
6	Athira Mohan	Bsc PCA	50	48	Passed
7	Gowree Nandana D	Maths	50	50	Passed
8	ATHUL S	BSC MATHEM	50	48	Passed
9	Varsha.R	Mathematics	50	49	Passed
10	Fathima Shaji	Economics	50	50	Passed
11	Abhijith.s	Mathematics	50	50	Passed
12	Devika. P	Mathematics	50	48	Passed
13	Riya Roy	Bsc.Mathema	50	47	Passed
14	Saeeda.N	Bsc mathema	50	48	Passed
15	Sneha R Sunil	Bsc. Mathema	50	49	Passed
16	Anandha Krishnan	BSC Mathema	50	50	Passed
17	Aiswarya M	Bsc mathema	50	47	Passed
18	Sreelekshmi p	Bsc Mathema	50	50	Passed
19	Souparnika R B	PCA	50	50	Passed
20	Gowry S	PCA	50	50	Passed
21	Anjali Reghu	Phycis	50	50	Passed
22	Parvathy.m.s	BA Economics	50	49	Passed
23	Anuja D	Economics	50	49	Passed
24	Abhiramy V R	Bsc Mathema	50	48	Passed
25	Gayathri S	PCA	50	50	Passed
26	Lekshmi D.S	Economics	50	50	Passed

CERTIFICATE COURSE 2020-21



SREE NARAYANA COLLEGE KOLLAM			
DEPARTMENT OF MATHEMATICS			
CERTIFICATE COURSE 2020-2021			
DATA ANALYSIS USING MICROSOFT EXCELL			
TIME TABLE			
ANUJA.S			
	DAY	TIME	THEORY/LAB
	MONDAY	8.30 to 9.30	THEORY
		3.15 4.15	Lab
	TUESDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	WEDNESDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	THURSDAY	8.30 to 9.30	Lab
		3.15 4.15	THEORY
	FRIDAY	8.30 to 9.30	THEORY
		3.15 4.15	THEORY
	SATURDAY	10 am to 1pm	Lab

CERTIFIED COURSE STUDENTS LIST & ATTENDANCE STATEMENT 2020-2021 (PRACTICAL)					
Sl no	Name	Class	27/3/21	17/4/21	24/4/21
1	Kripa sajan	Mathematics	p	P	P
2	Reshmi Mohan	Economics	p	P	P
3	Sayana pramod	Mathematics	p	P	P
4	AmruthaJ	Mathematics	p	P	P
5	Gouri.S.D	Bsc maths	p	P	P
6	Athira Mohan	Bsc PCA	p	P	P
7	Gowree Nandana D P	Maths	p	P	P
8	ATHUL S	Maths	p	P	P
9	Varsha.R	Mathematics	p	P	P
10	Fathima Shaji	Economics	p	P	P
11	Abhijith.s	Mathematics	p	P	P
12	Devika. P	Mathematics	p	P	P
13	Riya Roy	Maths	p	P	P
14	Saeeda.N	Maths	p	P	P
15	Sneha R Sunil	Maths	p	P	P
16	Anandha Krishnan R	Maths	p	P	P
17	Aiswarya M	Maths	p	P	P
18	Sreeleksmi p	Maths	p	P	P
19	Souparnika R B	PCA	p	P	P
20	Gowry S	PCA	p	P	P
21	Anjali Reghu	Phycis	p	P	P
22	Parvathy.m.s	BA Economics	p	P	P
23	Anuja D	Economics	p	P	P
24	Abhiramya V R	Maths	p	P	P
25	Gayathri S	PCA	p	P	P
26	Lekshmi D.S	Economics	p	P	P
27					
28					
29					
30					

Sheet1

SREE NARAYANA COLLEGE KOLLAM
DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE 2020-2021
DATA ANALYSIS USING MICROSOFT EXCEL

		PRACTICAL EXAM TIME TABLE	
DATE	DAY	TIME	
24/03/2021	Wednesday	1.30pm to 3.30pm	

Sree Narayana College, Kollam

Department of Mathematics

2020-2021

Certificate Course Report

Title of the Course: Data Analysis using Microsoft Excel

A meeting was held on 28/01/2021 at 1.30 pm in the computer lab, Department of Mathematics to discuss about the commencement of certificate course on Data analysis using Microsoft Excel.

The members of the board of studies for certificate course were present in the meeting. Chairman :-Ravivarma B. presided the meeting. All together 26 students applied for the course. The classes were handled by smt. Anuja S, Guest lecturer, Department of mathematics S.N.C. Kollam. The class commenced on 01/02/2021 . Both theory and practical classes were conducted for this students.

After successfully completing the classes practical exam was conducted on 24/02/2021 from 1.30 pm to 3.30 pm. All this students attended the exam and the pass percentage was 100%.

Thus the certificate course helped students to gain practical knowledge in this field, also this was an added advantage for the students to enhance their skill development as well as their curriculum vitae.



Sree Narayana College, Kollam

Affiliated to the University of Kerala

(Accredited by NAAC Grade 'A')

(ATAL 'A' Band Institution)

CERTIFICATE

This is to certify that *Mr./Ms.*..... **K.R.I.P.A. SAJAN**.....
Reg. No.**22019132046**..... Department of..... **Mathematics**..... has successfully
completed certificate course in... **Data... Analysis... using... Microsoft Excel**.....
.....
..... during**08.02.2020** to **19.03.2021**.

COURSE CO-ORDINATOR



PRINCIPAL

SREE NARAYANA COLLEGE, KOLLAM
 Department of Mathematics
 2020-21

Title of course

Data Analysis using Microsoft Excel




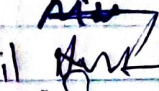

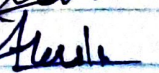


Meeting held on: 28/1/2021 at computer lab,
 Department of Mathematics

Minutes Report

Department has decided to commence classes
 on 1/2/2021

The Board of studies has approved the syllabus
 The course coordinate has scheduled the programme
 details and timetable of the classes.
 The Board of studies has decided to conduct
 external examination at the end of the year.

Attendance statement of the meeting

Sl.No	Name of faculty	Signature
1.	Ravivarma B	
2.	Kuleena Das	
3.	Nivek P.V	
4	Midhun S	
5	Niza N	
6	Havilal N Thazbikkattuzeril	
7	Midhun S	
8	Mithun A T	
9	Dr. Akhila R	

SREE NARAYANA COLLEGE, KOLLAM
 Department of Mathematics
 2020-21

Title of course


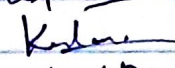

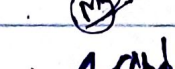
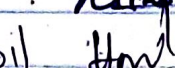

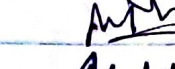
Data Analysis using Microsoft Excel

Meeting held on : 26/3/2021 at computer lab
 Department of Mathematics

Minutes Report

The Board of studies has decided to
 publish the result on 31/3/2021

Attendance statement of the meeting

Sl.No	Name of faculty	Signature
1.	Ravivarma B	
2.	kuleena Das	
3.	Vivek P V	
4.	Midhun S	
5.	Niza N	
6.	Hazilal N Thazhikkattuzhil	
7.	Midhun S	
8.	Mithun A T	
9.	Dr. Akhila R.	