

CMS
COLLEGE
KOTTAYAM
(AUTONOMOUS)



ESTD:1817

**DEPARTMENT OF COMMERCE
(AIDED)**

Value Added Course 3

**DATA ANALYSIS
USING SPSS**

This course would impart knowledge and practical skills

Business Research Analysis

The course includes

***Introduction to SPSS**

***Entering Data**

***Computing and Recording Variables**

***Measurement Scale**

***Descriptive Data Analysis**

Course Duration :36 hrs

Venue.Computer Lab, Dept. of Commerce



Department of Commerce

Value Added Programmes

2019-2020

Course	Details		
Code			
Title	Data Processing using Excel		
Degree	B.Com		
Branch(s)	Finance		
Year/Semester	1/1		
Type	Value added course		
Credits	2		
Total Hours	36	Hours per week	

	Course Objectives
1	To understand the application of MS Excel
2	To process the data using Excel

CO No.	Expected Course Outcomes <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	To understand the basic aspects of Excel.	Ap	6
2	To apply the excel application for database	Ap	6

CO-Course Outcome; Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create.

Module	Course Description	Hrs	CO No.
1.0	Excel – Introduction	4	1
1.1	Spreadsheet basics -Creating, editing, saving and printing spreadsheets -	2(1 theory + 1 practical)	1
1.2	Formatting worksheets, Securing & Protecting spreadsheets- Sheet Referencing-Linking Multiple Sheets, Consolidate worksheets.	2(1 theory + 1 practical)	1
2.0	Customizing &Linking of worksheets	8	1
2.1	Linking Between Word/ Excel/ Power point -	2(1 theory + 1	1

		practical)	
2.2	Customizing common options in Excel- Email worksheet-translate worksheet -Insert ,select, moves and delete data	2(1 theory + 1 practical)	1
2.3	Merge or Split Cells-auto fill data- rows and columns-copy and paste-paste special-find and replace-special symbols- text alignment-AutoFormat- setting cell type-page setup- Print features	4(2 theory + 2 practical)	1
3.0	Database Use of Excel	12	2
3.1	Insert, Modifying, Formatting Commands-Add Text Box- -Fonts-Merge and Wrap -Freeze Panes	6(2 theory + 4 practical)	2
3.2	Conditional Formatting-Data Sorting-Ranges-graphics(insert shape-insert smart art-insert clip art-insert word art)	6(2 theory + 4 practical)	2
4.0	Data Validation - I	6	
4.1	Data Validations- Designing the structure of a template-	3(1 theory + 2 practical)	2
4.2	Sorting tables- multiple-level sorting	3(1 theory + 2 practical)	2
5.0	Data Validation – II	6	
5.1	AutoFilter - advanced filter options	3(1 theory + 2 practical)	2
5.2	Creating subtotals - Multiple-level subtotals- data consolidation - conditional formatting -MACRO'S.	3(1 theory + 2 practical)	2

SUGGESTED READING

1. Walkenbach, John Excel 2016 Bible, Wiley
2. Winston, Wayne Microsoft Excel, Data Analysis and Business Modelling, PHI Learning Private Limited

TEACHING METHODOLOGY

1. Theory and Practical sessions
2. Case studies

EVALUATION

1. Practical Exam (60 marks)
2. Multiple choice questions (40 marks)

Course	Details		
Code			
Title	Advanced Excel		
Degree	B.Com		
Branch(s)	Finance		
Year/Semester	1 / 2		
Type	Value added course		
Credits	2		
Total Hours	36	Hours per week	

	<i>Course Objectives</i>
1	To impart analytical skills using Excel
2	To interpret and draw inferences from the data using Excel

CO No.	<i>Expected Course Outcomes</i> <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	To create charts and graphs using Excel	Ap	6
2	To apply various Excel functions	Ap	6

CO-Course Outcome; Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create.

Module	Course Description	Hrs	CON o.
1.0	Excel Charts and Graphs	8	1
1.1	Using Charts-Formatting Charts- Drawing toolbar features -Using 3D Graphs-Using Bar and Line Chart together - Using Secondary Axis in Graphs	4(1 theory + 3 practical)	1
1.2	Sharing Charts with PowerPoint / MS Word, Dynamically - (Data Modified in Excel, Chart would automatically get updated)	4(1 theory + 3 practical)	1
2.0	Pivot Tables	4	

2.1	Creating Pivot tables- Formatting and customizing Pivot tables-Using advanced options of Pivot tables	2(1 theory + 1 practical)	1
2.2	Pivot charts- Consolidating data from multiple sheets and files using Pivot tables-Using external data sources	2(1 theory + 1 practical)	1
3.0	Basic Excel Functions	8	2
3.1	Sum function- Average- Percentage- PMT function- IF Functions-Function Arguments -Built in function-	4(1 theory + 3 practical)	2
3.2	Common functions (AVERAGE, MIN, MAX, COUNT,COUNTA, ROUND, INT)- logical functions (AND, OR, NOT)	4(1 theory + 3 practical)	2
4.0	Nested Excel Functions	8	
4.1	Nested functions , Name cells /ranges /constants - lookup and reference functions (VLOOKUP, HLOOKUP, MATCH, INDEX)	4(1 theory + 3 practical)	2
4.2	Relative, Absolute, Mixed cell references : >,<>= operators	4(1 theory + 3 practical)	
5.0	Date , Time and Power Functions	8	
5.1	Date and time functions- Text functions-Database functions-	4(1 theory + 3 practical)	2
5.2	Power Functions (CountIf, CountIFS, SumIF, SumIFS)- Annotating formulas	4(1 theory + 3 practical)	2

SUGGESTED READING

1. Walkenbach, John Excel 2016 Bible, Wiley
2. Winston, Wayne Microsoft Excel, Data Analysis and Business Modelling, PHI Learning Private Limited

TEACHING METHODOLOGY

- 1.Theory and Practical sessions
- 2.Case studies

EVALUATION

1. Practical Exam (60 marks)
2. Multiple choice questions (40 marks)

Course	Details		
Code			
Title	Data Analysis using SPSS		
Degree	B.Com		
Branch(s)	Finance		
Year/Semester	6		
Type	Value added course		
Credits	2		
Total Hours	36	Hours per week	

	<i>Course Objectives</i>
1	To impart knowledge to use SPSS in business research analysis.
2	To develop practical skills in the applications of business software.

CO No.	<i>Expected Course Outcomes</i> <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	To enter data and prepare the initial procedures for performing a statistical procedure	Ap	6
2	To perform data transformation and do basic analysis of data	Ap	6

CO-Course Outcome; Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create.

Module	Course Description	Hrs	CO No.
1.0	Introduction to SPSS	8	1
1.1	Menus, tool bar	2(1 theory + 1 practical)	1
1.2	SPSS layout- Variable View – Data View – Output View	2(1 theory + 1 practical)	1
1.3	Terminology - Basic Steps for Performing any Statistical Procedure – Creating a Data file-	4(2 theory + 2 practical)	1

	Defining Variables- Variable Characteristics- Default Values		
2.0	Variables and Cases	10	
2.1	Entering the Data- Inserting Variable and Cases, Selecting Cases - Listing Cases	6(3 theory + 3 practical)	1
2.2	Identifying Duplicate Cases and Unusual Cases- Sorting	4(2 theory + 2 practical)	1
3.0	Data Transformation	8	2
3.1	Computing New Variables – Recoding Variables- Automatic Recode	5(2 theory + 3 practical)	2
3.2	Visual Binning – Rank cases –	3(1 theory + 2 practical)	2
4.0	Measurement Scales	4	
4.1	Types of Measurement Scales – Summary Measures - Frequency, Explore and Cross Tabs –	4(2 theory + 2 practical)	2
5.0	Data Analysis	6	
5.1	Describing Data Graphically	2(1 theory + 1 practical)	2
5.2	Descriptive Data Analysis- Number of cases, Minimum, Maximum, Sum, Mean, Standard Deviation, Variance, Kurtosis, Skewness - Bivariate Correlation	4(2 theory + 2 practical)	2

SUGGESTED READING

1. Discovering Statistics through SPSS- Andy Field, Sage Books (2013)
2. SPSS for Windows- Coakes, Steed and Dzidic Wiley India (2015).

TEACHING METHODOLOGY

1. Theory and Practical sessions
2. Analysis of data collected for projects

EVALUATION

1. Practical Exam (60 marks)
2. Written Exam (40 marks)

Form B:

VALUE ADDED COURSES

MARK SHEET

Name of the Course: **DATA ANALYSIS USING SPSS**

Year: **2019 – 2020**

SEMESTER: SIXTH DEPARTMENT: COMMERCE							
Sl. No.	Reg. No.	Name of Candidate (s)	END SEMESTER	IN SEMESTER	TOTAL: Max: 100	% of Marks	G R A D E
			Max: Marks 40	Max: Marks 60			
1	171114201	ABHIJITH P T	32	53	85	85	A+
2	171114202	AKHIL ZACHARIAH	28	50	78	78	A
3	171114203	ANUJA REBECA JACOB	30	50	80	80	A
4	171114204	APARNA P K	31	50	81	81	A
5	171114205	APARNA SURESH	28	50	78	78	A
6	171114206	ARAVIND K R	38	50	88	88	A+
7	171114207	BITTA BETTY BENNY	32	46	78	78	A
8	171114208	CHRISTY SUSAN JOHN	34	48	82	82	A
9	171114209	DEVENDU MANOHAR	32	50	82	82	A
10	171114210	DEVIKA P KUMAR	32	50	82	82	A
11	171114211	ELSA BENNY	30	50	80	80	A

12	171114212	FREDY K JOHN	28	50	78	78	A
13	171114213	GURUPRIYA K NAIR	30	50	80	80	A
14	171114214	JENI SUSAN MATHEWS	28	48	76	76	A
15	171114215	KARTHIKA UMESH	34	50	84	84	A
16	171114216	KRIPA R PILLAI	32	50	82	82	A
17	171114217	KS GOPALAKRISHNA IYER	22	50	72	72	B
18	171114219	MIDHUL JESUS BENNY	26	50	76	76	A
19	171114220	MILAN EAPEN THOMAS	24	42	66	66	B
20	171114221	NITHYA P NARAYANAN	30	50	80	80	A
21	171114222	POOJA JAYAPRAKASH	32	50	82	82	A
22	171114223	SAMEEKSHA SAJU	33	50	83	83	A
23	171114224	SHEEN THOMAS	34	50	84	84	A
24	171114225	SILPA ASOKAN	31	50	81	81	A
25	171114226	SUVARNA B	33	46	79	79	A
26	171114227	TISHA ASHOK	29	42	71	71	B
27	171114228	VARSHA SHEJI	27	50	77	77	A
28	171114229	VEENAPRIYA M M	31	46	77	77	A
29	171114230	ABHISHEK P A	30	50	80	80	A
30	171114231	AISWARIYA ASHOKAN	28	50	78	78	A
31	171114232	AMRUTHA RAVEENDRAN	32	50	82	82	A

32	171114233	ANANTHAKRISHNAN K R	30	50	80	80	A
33	171114234	ANSU MATHEW	32	50	82	82	A
34	171114235	APSARA P RAJAN	34	46	80	80	B
35	171114236	ARATHI SURESH	34	50	84	84	A
36	171114237	ARAVIND RAJESH	22	42	64	64	C
37	171114238	ASISH JOSEPH KURIAN	23	50	73	73	B
38	171114239	BRIGHTY GRACE GEORGE	25	50	75	75	A
39	171114241	FEBIN BABY	27	50	77	77	A
40	171114242	GRESNA BIJU	32	50	82	82	A
41	171114243	JERLIN GEORGE	30	50	80	80	A
42	171114244	JOSE JACOB	34	50	84	84	A
43	171114245	MEERA M NAIR	34	50	84	84	A
44	171114246	PAAPPU ROY	32	50	82	82	A
45	171114247	RAHUL P RAJESH	31	50	81	81	A
46	171114248	RENJITHA KRISHNA	33	50	83	83	A
47	171114250	SHONE P VARGHESE	30	50	80	80	A
48	171114251	SNEHA M BABU	32	46	78	78	B
49	171114253	THARIF KHAN	31	46	77	77	A
50	171114254	VISHNUPRIYA K V	33	50	83	83	A

Name and Signature of the
Co-ordinator

(College Seal)


Name and Signature of
Principal

CMS COLLEGE KOTTAYAM (Autonomous)

CBCSS B.Com VI Semester (Batch 2017-2020)

Value added course – Attendance Sheet

S.No	Reg No	Name	11-11-19	12-11-19	13-11-19
1	171114201	ABHIJITH P T	X	✓	X
2	171114202	AKHIL ZACHARIAH	X	✓	X
3	171114203	ANUJA REBECA JACOB	X	✓	X
4	171114204	APARNA P K	X	X	X
5	171114205	APARNA SURESH	X	X	X
6	171114206	ARAVIND K R	X	X	X
7	171114207	BITTA BETTY BENNY	X	X	X
8	171114208	CHRISTY SUSAN JOHN	X	X	X
9	171114209	DEVENDU MANOHAR	X	X	X
10	171114210	DEVIKA P KUMAR	X	X	X
11	171114211	ELSA BENNY	✓	X	X
12	171114212	FREDY K JOHN	X	X	X
13	171114213	GURUPRIYA K NAIR	X	X	X
14	171114214	JENI SUSAN MATHEWS	X	X	X
15	171114215	KARTHIKA UMESH	X	X	X
16	171114216	KRIPA R PILLAI	X	X	X
17	171114217	KS GOPALAKRISHNA IYER	X	a	X
18	171114219	MIDHUL JESUS BENNY	X	X	X
19	171114220	MILAN EAPEN THOMAS	X	a	X
20	171114221	NITHYA P NARAYANAN	X	X	X
21	171114222	POOJA JAYAPRAKASH	X	X	X
22	171114223	SAMEEKSHA SAJU	X	X	X
23	171114224	SHEEN THOMAS	X	X	X
24	171114225	SILPA ASOKAN	X	X	X
25	171114226	SUVARNA B	X	X	X
26	171114227	TISHA ASHOK	X	X	X
27	171114228	VARSHA SHEJI	X	X	X
28	171114229	VEENAPRIYA M M	X	X	X
29	171114230	ABHISHEK P A	X	X	X
30	171114231	AISWARIYA ASHOKAN	X	X	X
31	171114232	AMRUTHA RAVEENDRAN	X	X	X
32	171114233	ANANTHAKRISHNAN K R	X	X	X
33	171114234	ANSU MATHEW	X	X	X
34	171114235	APSARA P RAJAN	X	X	X
35	171114236	ARATHI SURESH	X	X	X
36	171114237	ARAVIND RAJESH	X	X	X
37	171114238	ASISH JOSEPH KURIAN	X	X	X
38	171114239	BRIGHTY GRACE GEORGE	X	X	X
39	171114241	FEBIN BABY	X	X	X


 Dr. Vinod George Kumar

CMS COLLEGE KOTTAYAM (Autonomous)

CBCSS B.Com VI Semester (Batch 2017-2020)

Value added course – Attendance Sheet

40	171114242	GRESNA BIJU	X	X	X
41	171114243	JERLIN GEORGE	X	X	X
42	171114244	JOSE JACOB	X	X	X
43	171114245	MEERA M NAIR	X	X	X
44	171114246	PAAPPU ROY	X	X	X
45	171114247	RAHUL P RAJESH	X	X	X
46	171114248	RENJITHA KRISHNA	X	X	X
47	171114250	SHONE P VARGHESE	X	X	X
48	171114251	SNEHA M BABU	X	X	X
49	171114253	THARIF KHAN	X	X	X
50	171114254	VISHNUPRIYA K V	X	X	X


Dr. Vimal George

Head of the Department
Department of Commerce
CMS College, Kottayam (Autonomous)

CMS COLLEGE KOTTAYAM (Autonomous)

CBCSS B.Com VI Semester (Batch 2017-2020)

Add on Course

Attendance Sheet

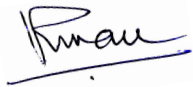
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1	171114201	ABHIRAM P T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	171114202	AKHIL ZACHARIAH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	171114203	ANUJA REBECA JACOB	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	171114204	APARNA P K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	171114205	APARNA SURESH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	171114206	ARAVIND K R	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	171114207	BITTA BETTY BENNY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	171114208	CHRISTY SUSAN JOHN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	171114209	DEVENDU MANOHAR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	171114210	DEVKA P KUMAR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	171114211	ELSA BENNY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	171114212	FREDY K JOHN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	171114213	GURUPRIYA K NAIR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	171114214	JENI SUSAN MATTHEWS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	171114215	KARTHIKA UMESH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	171114216	KRIPA R PILLAI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	171114217	KS GOPALAKRISHNA IYER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	171114219	MIDHUL JESUS BENNY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	171114220	MILAN EAPEN THOMAS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	171114221	NITHYA P NARAYANAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	171114222	POOJA JAYAPRAKASH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	171114223	SAMEEKSHA SATU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CMS COLLEGE KOTTAYAM (Autonomous)

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Course Completion Certificate

*This is to certify that **Mr. ABHIJITH P T** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

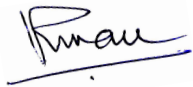


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Course Completion Certificate

*This is to certify that **Mr. AKHIL ZACHARIAH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

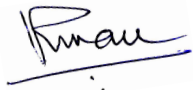


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Course Completion Certificate

*This is to certify that **Ms. ANUJA REBECA JACOB** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

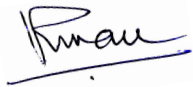


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Course Completion Certificate

*This is to certify that **Ms APARNA P K** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

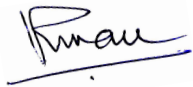


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Course Completion Certificate

*This is to certify that **Ms. APARNA SURESH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

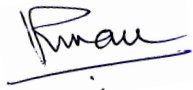


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*This is to certify that **Mr. ARAVIND K R** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

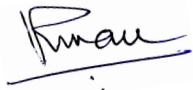


CMS COLLEGE KOTTAYAM (Autonomous)

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Course Completion Certificate

*This is to certify that **Ms. BITTA BETTY BENNY** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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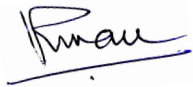


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Course Completion Certificate

*This is to certify that **Ms. CHRISTY SUSAN JOHN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
(Principal)

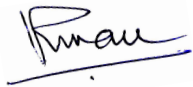


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*This is to certify that **Ms. DEVENDU MANOHAR** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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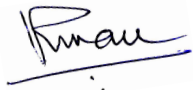


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*This is to certify that **Ms. DEVIKA P KUMAR** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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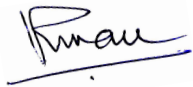


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*This is to certify that **Ms. ELSA BENNY** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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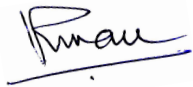


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*This is to certify that **Mr. FREDY K JOHN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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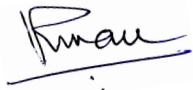


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*This is to certify that **Ms. GURUPRIYA K NAIR** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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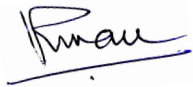


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*This is to certify that **Ms. JENI SUSAN MATHEWS** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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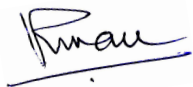


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*This is to certify that **Ms. KARTHIKA UMESH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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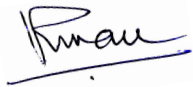


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*This is to certify that **Ms. KRIPA R PILLAI** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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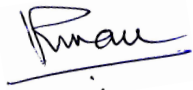


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*This is to certify that **Mr. KS GOPALAKRISHNA IYER** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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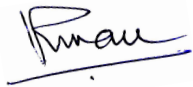


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*This is to certify that **Mr. MIDHUL JESUS BENNY** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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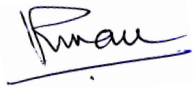


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*This is to certify that **Mr. MILAN EAPEN THOMAS** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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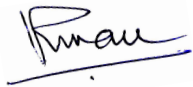


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*This is to certify that **Ms. NITHYA P NARAYANAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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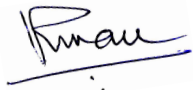


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*This is to certify that **Ms. POOJA JAYAPRAKASH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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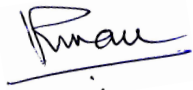


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*This is to certify that **Ms. SAMEEKSHA SAJU** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
(Principal)

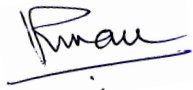


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*This is to certify that **Ms. SHEEN THOMAS** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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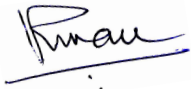


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*This is to certify that **Ms. SILPA ASOKAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
(Principal)

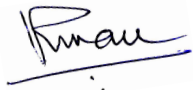


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*This is to certify that **Ms. SUVARNA B** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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(Principal)

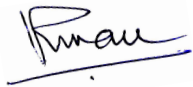


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Course Completion Certificate

*This is to certify that **Ms. TISHA ASHOK** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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(Head of the Department)



Dr. Roy Sam Daniel
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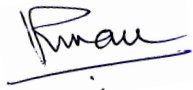


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*This is to certify that **Ms. VARSHA SHEJI** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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(Head of the Department)



Dr. Roy Sam Daniel
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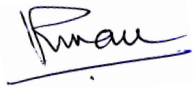


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*This is to certify that **Ms. VEENAPRIYA M M** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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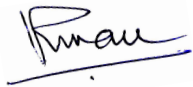


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*This is to certify that **Mr. ABHISHEK P A** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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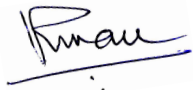


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*This is to certify that **Ms. AISWARIYA ASHOKAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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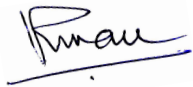


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*This is to certify that **Ms. AMRUTHA RAVEENDRAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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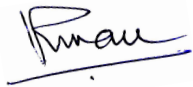


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*This is to certify that **Mr. ANANTHAKRISHNAN K R** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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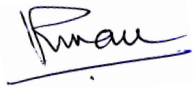


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*This is to certify that **Ms. ANSU MATHEW** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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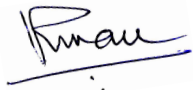


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*This is to certify that **Ms. APSARA P RAJAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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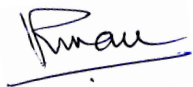


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*This is to certify that **Ms. ARATHI SURESH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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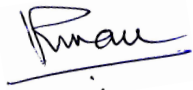


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*This is to certify that **Mr. ARAVIND RAJESH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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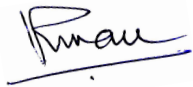


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*This is to certify that **Mr. ASISH JOSEPH KURIAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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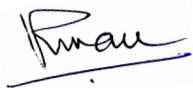


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*This is to certify that **Ms. BRIGHTY GRACE GEORGE** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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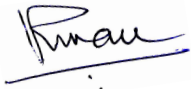


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*This is to certify that **Mr. FEBIN BABY** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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Dr. Roy Sam Daniel
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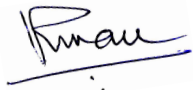


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*This is to certify that **Ms. GRESNA BIJU** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



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(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

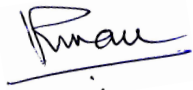


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Course Completion Certificate

*This is to certify that **Ms. JERLIN GEORGE** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

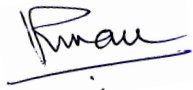


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Course Completion Certificate

*This is to certify that **Mr. JOSE JACOB** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

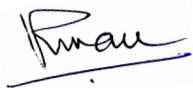


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*This is to certify that **Ms. MEERA M NAIR** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

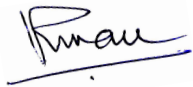


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Course Completion Certificate

*This is to certify that **Mr. PAAPPU ROY** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

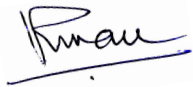


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Course Completion Certificate

*This is to certify that **Mr. RAHUL P RAJESH** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

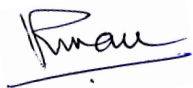


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Course Completion Certificate

*This is to certify that **Ms. RENJITHA KRISHNA** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

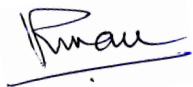


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Course Completion Certificate

*This is to certify that **Mr. SHONE P VARGHESE** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

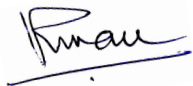


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Course Completion Certificate

*This is to certify that **Ms. SNEHA M BABU** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

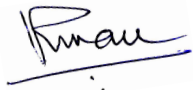


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Course Completion Certificate

*This is to certify that **Mr. THARIF KHAN** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)

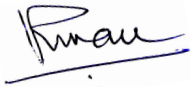


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Course Completion Certificate

*This is to certify that **Ms. VISHNUPRIYA K V** pursuing B.Com programme (2017-2020) at the Department of Commerce has successfully completed Add-on course on **Data Analysis using SPSS** during 2019-20.*



Dr. Vimal George Kurian
(Head of the Department)



Dr. Roy Sam Daniel
(Principal)



DEPARTMENT OF COMMERCE

Report on the Value Added Course offered

Data Analysis using SPSS

A Value Added Course was offered to the 3rd year students of B.Com 2017-2020 batch, on the usage of statistical software SPSS, during the even semester from November 2019 to February 2020. The course was of 36 hours duration, with 21 hours of practical. A total of 50 students enrolled for the course and all of them appeared for the written and the practical exam. The course was offered with an objective to impart knowledge on the usage of SPSS in business research analysis and also to develop practical skills in the application of this business software. Upon the completion of the course, the student was expected to perform data transformation and do basic data analysis. Through the evaluation, the basic knowledge of the students on SPSS and its application was tested.