



SRI C. ACHUTHAMENON GOVERNMENT COLLEGE THRISSUR

PG AND RESEARCH
DEPARTMENT OF COMMERCE
AND MANAGEMENT STUDIES

ORGANISES

TWO DAYS NATIONAL WORKSHOP

ON

MULTIVARIATE DATA ANALYSIS

27/11/2023 & 28/11/2023

VENUE
COMMERCE SEMINAR HALL

SPONSORED BY

DIRECTORATE OF
COLLEGIATE EDUCATION
GOVERNMENT OF KERALA



Dear Sir/Madam,

It gives us immense pleasure to invite you for our upcoming National Workshop on "Multivariate Data Analysis" hosted by our department. This event is designed to bring together professionals, experts, scholars, and enthusiasts in the field of Research. The workshop will be a path finder for your research data analysis. We expect your whole hearted support and participation.

COORDINATOR
SUCHITHRA P P

HOD
Lt. S V RAJKUMAR

PRINCIPAL
DR. MANOKUMAR P S

About the College and Department

Sri. C. Achutha Menon Government College, Thrissur, named after the eminent Chief Ministers of Kerala, is the institution, drawing its inspiration from the values and visions aims at moulding the young seekers of the knowledge and provides a proper direction for their intellectual and aesthetic pursuits. The college started functioning on 14 August 1972. The college is affiliated to the University of Calicut and has 9 UG and 5 PG Department of which 4 are Research Departments.

The PG and Research Department of Commerce started functioning at the inception of the college in 1972, with a pre-university course in commerce. Catering to the needs of almost one-third of the total student population of the college, the department presently offers two UG programs (B.Com & B.B.A) one PG program (M.Com.), and a Ph.D. program in Commerce and Management stream. The department earns the status of a prominent center for teaching and learning in business and management education in the region.

About the Workshop

The aim of multivariate analysis is to find patterns and correlations between several variables simultaneously. Multivariate analysis is especially useful for analyzing complex datasets. It allows to gain a deeper understanding of the data and how it relates to real-world scenarios.

Resource Person



Dr. Rajesh P
Associate Professor
Government Engineering
College Thrissur

Guideline for Participants

There will be no registration fees for the workshop

Maximum participants limited to 40 (will be on first come first served basis)

Participants are required to bring laptops (properly charged)

Ensure your seats by registering through our registration link

<https://forms.gle/2bX3ErJgXhcrzo8>

FOR ANY QUERIES CONTACT :

MS. SUCHITHRA P P(9895795198)

Ms. SIJI M U(9846910293)

DAY 1 - 27/11/2023 (MONDAY)

9.00 am - 9.30 am Registration

9.30 am - 10.00 am Inaugural Session

Technical Session I (10.00 am - 11.30 am)

Introduction to Multivariate Data Analysis and the Basics of Regression Modelling.

Technical Session II (11.30 am - 1.00 pm)

Multiple linear regression - Estimation and Interpretation

LUNCH BREAK

Technical Session III and IV (1.30 pm - 4.30 pm)

Regression Diagnostics 1 : Testing for Heteroscedasticity and Serial Correlation

Regression Diagnostics 2: Testing for Multicollinearity and Model Specification



VALEDICTORY SESSION (4.30 pm)

Organising Committee:

Principal : Dr. Manoj Kumar P.S

HOD : Lt.S.V. Rajkumar

Coordinator: Smt.Suchithra P. P

Joint Coordinator: Smt. Siji. M. U

Members :

Sri. Vijayan P. K

Dr. Madhusoodanan Kartha N. V

Smt. Liji. V. P

Sri. Johnson N. J

Dr. Deepa Paul

Dr. Eldhose K. V

Dr. Anand. K

Smt. Manju K. V

Dr. Ajitharani Unnikrishnan

Sri. Santhosh V. C

DAY 2-28/11/2023 (TUESDAY)

Technical Session V (10.00 am - 11.30 am)

Regression Models using Dummy variables

Technical Session VI (11.30 am - 1.00 pm)

Logistic Regression - Estimation and Interpretation

LUNCH BREAK

Technical Session VII (1.30 pm - 3.00 pm)

Analysis of Variance and Analysis of Covariance

Technical Session VIII (3.00 pm - 4.30 pm)

Exploratory Factor Analysis





SRI. C. ACHUTHA MENON GOVERNMENT COLLEGE

Thrissur, Kerala - 680 014

PG & Research Department of Commerce and Management Studies

Two Day National Workshop on "Multivariate Data Analysis"

Certificate

This is to certify that Mr. / Ms. / Dr.....

..... has attended the Two Day National Workshop on
"Multivariate Data Analysis" as Participant/ Resource Person organised by PG & Research
Department of Commerce and Management Studies, Sri. C. Achutha Menon Government College,
Thrissur on 27th and 28th November 2023.

Ms. Suchithra P. P.
Co-ordinator

Lt. S. V. Rajkumar
HOD

Dr. P. S. Manojkumar
Principal

DUTY CERTIFICATE

This is to certify that Mr. /Ms. /Dr.....

.....
has attended Two-day **National workshop** on “**Multivariate Data Analysis**” as Delegate/ Resource Person organized by the PG and Research Department of Commerce and Management Studies, Sri C Achutha Menon Government College, Thrissur on 27th and 28th November 2023.

Thrissur

PRINCIPAL

Date: 28-11-2023

Two-Day National Workshop on “Multivariate Data Analysis”

On 27th and 28th November 2023

PG & Research Department of Commerce and Management Studies
Sri. C. Achutha Menon Government College, Thrissur

Workshop Report

Data analysis is an integral part of research. The motive behind data analysis in research is to present accurate and reliable data. As far as possible, avoid statistical errors, and find a way to deal with everyday challenges like outliers, missing data, data altering, data mining, or developing graphical representation. Analysis helps mine and interpret data while structuring the data into a format that's easy to understand and applicable in real-world situations.

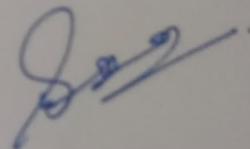
Multivariate analysis (MVA) is a Statistical procedure for analysis of data involving more than one type of measurement or observation. It may also mean solving problems where more than one dependent variable is analyzed simultaneously with other variables. Multivariate analysis is conceptualized by tradition as the statistical study of experiments in which multiple measurements are made on each experimental unit and for which the relationship among multivariate measurements and their structure are important to the experiment's understanding.

The major objective of this workshop was to provide a hands on training to the participants for multivariate data analysis, which will be beneficial to the smooth conduct of their research data analysis. Multivariate Data Analysis Software like Gretel, SPSS etc. were discussed in detail.

The workshop began with a silent prayer at 9.30 A.M on 27th November 2023. Prof. Rajesh.P, Associate Professor of Economics, Government Engineering College, Inaugurated the workshop. Lt. S. V Rajkumar, HOD, PG & Research Department of Commerce and Management Studies offered Welcome to the gathering. College Principal Dr. P. S. Manojkumar was the President of the Programme. College IQAC Coordinator Dr. Sheeja P. C felicitated the programme and the inaugural session end with a vote of thanks extended by the workshop Coordinator.

The workshop has eight technical sessions handled by the Resource Person Prof. Rajesh. P. More than forty delegates from various colleges and Universities in Kerala and Tamilnadu were participated the workshop. The workshop concluded with a valedictory function at 4.30 P.M on 28th November, 2023. The Department of Collegiate Education allotted Rs.48500/- for the conduct of the programme and the full amount is utilised.

Suchithra P P



Workshop Coordinator

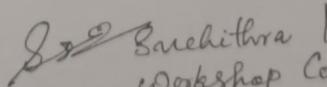
Registration Form - Resource Person

| SL. No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
|------------|--------------|---------------------|-------------------------------------|--------------------|------------|---|
| 1 | Dr. Rajesh P | Associate Professor | Govt. Engineering College, Thrissur | rajesh@gecfr.ac.in | 9447344410 |  |

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Date: 27/4/2023

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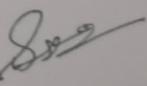
 Suchithra P.P
Workshop Co-ordinator

Registration Form - Delegates

| SL. No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
|------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------|---|
| 1 | Rejewary k | Asst prof of Commerce | GASE, Chelakkara, Trk | rejewaryk81@gmail.com | 8281406538 |  |
| 2. | DEEPTHI.T. | Asst. Prof of Commerce. | N.S.S College, Nemmara. | deepthi.i.Unni (@gmail.com) | 9961358393 |  |
| 3. | JILU MARLHESE Ass | Asst prof. of Commerce | St. Mary's College Trs. | jilujijo@gmail.com | 9605101722 |  |
| 4. | Tayepurige S | Asst. Professor | SNCIS College, Pattambi. | rameshjaya prye2@gmail.com | 9447409915 |  |
| 5 | Pavathri P.c | Res. Scholar | Hort College Thrissur | Pavathrip1994 @gmail.com | 8113092349 |  |

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Date: 24/11/2023


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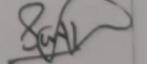
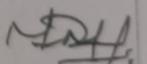
Registration Form - Delegates

| SL No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
|--------|-----------------|---------------------|---------------------------------|--------------------------------|------------|-----------------|
| 6 | Dr. Krishnan M | Assistant Professor | Sanatana Dharma College | Krishnanm123@gmail.com | 9447119724 | M Krishnan |
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| 10 | JINCY R. JEROME | Research Scholar | S. D. college, Alappuzha | jincyraj Jerome95@gmail.com | 8547131961 | Jincy R. Jerome |

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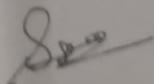
Date: 8/11/2023

Registration Form - Delegates

| S.L. No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
|-------------|-----------------------------|------------------------|---------------------------------------|----------------------------|------------|---|
| 11 | Vishnu. V | Research Scholar. | S.D. College, Alappuzha | Vishnukerala@gmail.com | 9605867498 |  |
| 12 | Dr. ANTHONY UNNIKRISHNAN | Assistant Professor | Sri. C. Achutha Menon Govt College | dagithasan4@gmail.com | 9446034762 |  |
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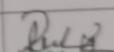
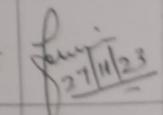
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Date: 07/11/2023



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Registration Form - Delegates

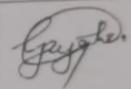
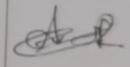
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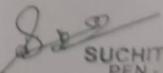

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| 25 | Anu An | Research Scholar | Sri Krishna Adithya College of Arts & Science Kovripudur | anuvishu19936@gmail.com | 90418472823 |  |

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Registration Form - Delegates

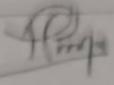
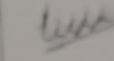
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| 26 | RAJKUMAR.SV <i>Rajkumar.sv</i> | Assistant Professor | SCAMGC, Thrissur-14 | rajkumar25@gmail.com | 9349191936 | <u>Thuky</u> |
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Date: 28/11/23

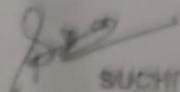
SUCHITHRA P. P.
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Registration Form - Delegates

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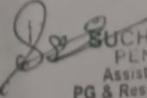

SUCHITHRA P P

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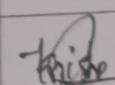
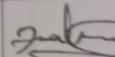
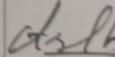
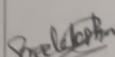
| SL. No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
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Thrissur

Date: 07/11/23

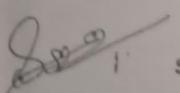

Dr. SUCHITHRA P. P.
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Registration Form - Delegates

| SL. No. | Name | Designation | Institution | Email Id | Mobile No. | Signature |
|------------|--------------------|-------------|--|---------------------------------|------------|---|
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| 44 | Arshana V.B | Student | Sri. c. Achutha menon Govt. college thrissur | archana.v.b.april2002@gmail.com | 7591954186 |  |
| 45 | Sreelekshmi P.S | Student | Sri. c. Achutha menon Govt | Sreelekshmis07@gmail.com | 9048202428 |  |

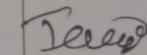
Thrissur

Date: 27/4/23



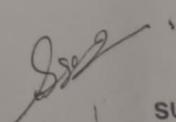
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Registration Form - Resource Person

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Thrissur

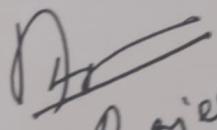
Date: 27/04/23



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ATTENDANCE SHEET - RESOURCE PERSON

| Name, Designation & Office | 27/11/2023 | | 28/11/2023 | |
|--|------------|----|------------|----|
| | FN | AN | FN | AN |
| Dr. Rajesh .P , Associate Professor, Government Engineering College Thrissur | | | | |


Rajesh

Thri sur
28/11/2023



PG and Research Department of Commerce and Management Studies
 Sri C. Achutha Menon Government College Thrissur
 Two Days National Workshop on MULTIVARIATE DATA ANALYSIS
ATTENDANCE SHEET - DELEGATES

| Sl.No. | Name, Designation & Office | 27/11/2023 | | 28/11/2023 | |
|--------|---|------------|----|------------|----|
| | | FN | AN | FN | AN |
| 1. | Rajeshwari K. Asst. Prof. of Commerce LBS, Chelakkara, Triv | | | | |
| 2. | DEEPTHI T. Asst. Professor of Commerce, N.S.S College Almenmar | | | | |
| 3. | Jiju VARGHESE Asst. Professor Dept of Commerce St. Mary's College, Tir | | | | |
| 4. | Gayathri T. Sree Neelakanda Gout-Sanskrit College, Pattambi | | | | |
| 5. | Parvathi P.C Sri C Achutha Menon Govt College Thrissur | | | | |
| 6. | Dr. Krishnan M Asst. Professor Dept. of Commerce SD College | | | | |
| 7. | Dr. Priya R Asst. Professor Dept. of Commerce SD College | | | | |
| 8. | PRASAD. C.V Asst. Professor SNGS College Pattambi | | | | |
| 9. | BINDU T. Asst. Professor Sreenivasanaparam VTB college mannamparamba, | | | | |

PG and Research Department of Commerce and Management Studies
 Sri C. Achutha Menon Government College Thrissur
 Two Days National Workshop on MULTIVARIATE DATA ANALYSIS
ATTENDANCE SHEET - DELEGATES

| No. | Name, Designation & Office | 27/11/2023 | | 28/11/2023 | |
|-----|---|------------|----|------------|----|
| | | FN | AN | FN | AN |
| 10 | JINCY R JEROME Research Scholar S.D. College Alappuzha. | | | | |
| 11 | Vishnu V Research Scholar SDC Alappuzha | | | | |
| 12 | Dr. AJITHARANI UNNI KRISHNAN Sri. C. Achutha Menon Govt. College | | | | |
| 13 | Santhoshiv C Sri. C. Achutha Menon Govt. College | | | | |
| 14 | Minu M. Gopal SKVNC, Tcr | | | | |
| 15 | VIJAYAN. P.K Sri. C. Achutha Menon Govt. College, Thrissur | | | | |
| 16 | Dr. JUSTINE K. JAMES Dept. of Psychology Sri C. Achutha Menon Govt. College, Thrissur | | | | |
| 17 | Eldhouse K.J Dept. of Commerce SCAM GC, Thrissur | | | | |
| 18 | Johnson N T Dept. of Commerce SCAM Govt. College Tcr | | | | |

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| | | FN | AN | FN | AN |
| 19 | Rishana V.P | <i>Rishana</i> | <i>Rishana</i> | <i>Rishana</i> | <i>Rishana</i> |
| 20 | Harishma. C | <i>Harishma</i> | <i>Harishma</i> | <i>Harishma</i> | <i>Harishma</i> |
| 21 | Jemima Jose | <i>Jemima 27-11-2023</i> | <i>Jemima 27-11-2023</i> | <i>Jemima 27-11-2023</i> | <i>Jemima 27-11-2023</i> |
| 22 | Femeena - P.A | <i>Femeena 27/11/23</i> | <i>Femeena</i> | <i>Femeena</i> | <i>Femeena</i> |
| 23 | Sony. P.J | <i>Sony</i> | <i>Sony</i> | <i>Sony</i> | <i>Sony</i> |
| 24 | Gayathri P.T. | <i>Gayathri</i> | <i>Gayathri</i> | | |
| 25 | Anitha. C.R | <i>Anitha</i> | <i>Anitha</i> | <i>Anitha</i> | <i>Anitha</i> |
| 26 | Kala Krishnan | <i>Kala</i> | <i>Kala</i> | <i>Kala</i> | <i>Kala</i> |
| 27 | Sumesh.s | <i>Sumesh</i> | <i>Sumesh</i> | <i>Sumesh</i> | <i>Sumesh</i> |

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| 29 | Parvathi . P. C | | | | |
| 30 | S.V. RAJKUMAR Sri C Achutha Menon Govt College, Thrissur-14 | | | | |
| 31 | Suchithra P. P Asst. Professor SCAM Govt. College, Thrissur | | | | |
| 32 | Siji M.U, Asst. Prof Sri C Achutha Menon Govt College Thrissur | | | | |
| 33 | MANJU. K.V Asst. Professor Govt College, Thrissur | | | | |
| 34 | Lipi.v. P Asst. Professor Govt. College, Thrissur | | | | |
| 35 | Sasi P.S Research Scholar Maharajas College, Ernakulam | | | | |
| 36 | Tissa Mariya Joshy Research Scholar Maharajas college, Ernakulam | | | | |

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| 38 | Ajitha . R | | | | |
| 39 | Dr. Jeeja. b.s Asst. Professor of Economics Sri. c. Achuthamenon Govt. college | | | | |
| 40 | Sangeetha . P. G. Assistant Professor of Economics Sri. c. Achuthamenon Govt. college | | | | |
| 41 | DR. SMITHA. R Assistant Professor of Economics Govt. college Thrissur | | | | |
| 42 | Tomal Joseph | | | | |
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| 46 | Krishnapriya - P.P | | | | |
| 47 | Sree Lakshmi S. Warrier | | | | |
| 48 | Anjana C.R | | | | |
| 49 | Amautha K.R | | | | |
| 50 | Punniya. PV | | | | |
| 51 | Anupriya TS | | | | |
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