# Three Day National Workshop on

# Estimation Procedures and Statistical Inferences in Social Science Research

# Organized by

PG Department of Economics Government College Chittur

Dates of Seminar:

Sponsored by:

11/12/2019 to 13/12/2019

Directorate of Collegiate Education,

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lents and teachers of economics towards developing research aptitude and statistical skills. We cordi the Directorate of Collegiate Education, Government of Kerala. The present workshop is an effort to cedures and Statistical Inferences in Social Science Research" from 11th to 13th December 2019; to be a part of it. Department of Economics, Government College Chittur is organizing a three day national workshop

ıju Varghese

-ordinator

Prof. R Anand Viswanath

HoD

Dr.Veeramanikand

Principal

Three Day National Workshop on

## ESTIMATION PROCEDURES AND STATISTICAL INFERENCES IN SOCIAL SCIENCE RESEARCH

On 11 to 13th December 2019

Manju Varohese

Co-ordinator

12.2019



Organized by
PG Department of Economics, Govt. College Chittur



Sponsored by
Directorate of Collegiate Education

### CERTIFICATE

This is to certify that Mr./Mrs./Dr.
Workshop on Estimation Procedures and Statistical Inferences in Social Science Research
organized by the PG Department of Economics, Govt. College Chittur, sponsored by th
Department of Kerala on 11 to 13th December 2019.
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organized by the PG Department of Economics, Govt. College Chittur, sponsored by the Department of College Chittur, sponsored by the Department of Kerala on 11 to 13th December 2019.
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Principal

### NATIONAL WORKSHOP

Report of three day national work shop on Estimation Procedures and Statistical Inferences in SocialScience Research Organized by PG Department of Economics Government College Chittur

The Department of Economics, Government College Chittur has organized a three day national workshop on "Estimation Procedures and Statistical Inferences in Social Science Research" from 11<sup>th</sup> to 13<sup>th</sup> December 2019 sponsored by the Directorate of Collegiate Education, Government of Kerala. The present workshop was an effort to orient the students and teachers of economics towards developing research aptitude and statistical skills. The seminar had 14 sessions including one inaugural session and one valedictory session.

On day1, December 11, first session inaugural session started with a prayer at 9:30 am. by 9.00 am registration procedure has started and 45 teacher participants and 77 student participants registered for the seminar. Seminar was inaugurated by Dr. Prashobhan Palakeeel, Assistant Professor, Department of Economics, Amrita Vishwa Vidhya Peetham, Bangluru. Professor Ananad Viswanath welcomed the gathering and Principal Of Government College Chittur, Dr. Veera Manikandan. N presided over the function. In his key note address Dr Prashobhan Palakeel introduced various statistical methods for data analysis, he provided a thorough introduction to the statistical methods used in the social sciences and to the numerical methods used to implement them. Richard Scaria, PTA Secretary and Divya H union representative offered felicitation for the national seminar. The inaugural session ended with the vote of thanks proposed by the seminar coordinator Manju Varghese, Assistant Professor Department of Economics Government College Chittur.

Technical session 2 from 11.45 am to 1.15 pm was handled by Dr.Mugesh P Assistant Professor, Department Of Commerce, AMC Group of Educational Institutions. Manissery, Ottapalam. In his session he discussed about the basics of research like problem recognition and definition, creating the research design, methods of research sampling data collection techniques and report writing. He was able to provide with fundamentals of research methodology and data collection and also helped to provide necessary steps and guidelines to researchers and postgraduates who are more often faced with the challenges of how to start and what to do at a given sta, ... was highly useful for researchers at various levels of a cademic endeavour.

handled by Dr.Mugesh P Assistant Professor, Department Of Commerce, AMC Group of Educational Institutions, Manissery, Ottapalam. In his sessions he discussed about four basic types of data: nominal, ordinal, interval, and ratio. He stated the kinds of statistical tests that can be performed depend upon the type of data you have. Different statistical tests are used for different types of data Nominal and ordinal data are nonparametric (noncontinuous or categorical). Interval and ratio scale are called parametric (continuous). Some statistical tests are called parametric tests because they use parametric data. Others are called nonparametric tests because they use nonparametric data.

GOVT. COLLEGE CHITTUR data. His class was able to provide a good idea about variables and how to to relate with research.

In Day 2, December 12 Technical Session 5 (9.30 am toll am) and Technical Session 6 (11.15 am tol2.45 pm) was handled by (Assistant Professor, Department of Economics, and qualitative research and in technical Session 5 he discussed about quantitative and qualitative research and in technical session he discussed about parametric tests, in technical session5 he stated that Qualitative Research is primarily exploratory research. It is used to gain an understanding of underlying reasons, opinions, and motivations. It provides insights into the problem or helps to develop ideas or hypotheses for potential quantitative research. Quantitative Research is used to quantify the problem by way of generating numerical data or data that can be transformed into useable statistics. It is used to quantify attitudes, opinions, behaviors, and other defined variables – and generalize results from a larger sample population. Quantitative Research uses measurable data to formulate facts and uncover patterns in research. In technical session 6 he introduced parametric testes to the audience. He stated Parametric tests are used only where a normal distribution is assumed. The most widely used tests are the t-test (paired or unpaired), ANOVA (one-way non-repeated, repeated; two-way, three-way), linear regression and Pearson rank correlation.

In day 2, technical session 7 (1.30 pm to 3.00pm)and technical session eight (3 pm to 4.30 pm) was leady Dr. Pradeep P Assistant Professor, Department of Economics, Kerala Varma College, Thrissur. In his session he spoke about non –parametric test and correlation analysis. He demonstatred Non-parametric tests are used when continuous data are not normally distributed or when dealing with discrete variables. Most widely used are chisquared, Fisher's exact tests, Wilcoxon's matched pairs, Mann–Whitney U-tests, Kruskal–Wallis tests and Spearman rank correlation. He also brough out significance of correlation Correlation analysis is performed to identify the strength of relationships between a pair of variables. When the data are parametric and normally distributed, Pearson-moment correlation is used. Linear regression is similar to linear correlations, but it is assumed that one variable (dependent) depends on another independent variable.

In day 3, December 13, technical session 9 and technical session 10 was handeled by Dr. Prasanth C B, Assistant Professor, Department of Statistics, Kerala Varma College, Thrissur. He dealt with Regression Analysis and dummy variable model, he stated Use regression analysis to describe the relationships between a set of independent variables and the dependent variable. Regression analysis produces a regression equation where the coefficients represent the relationship between each independent variable and the dependent variable. You can also use the equation to make predictions, he pointed out the importance of dummy variable. He illustrated dummy variable is a numerical variable used in regression analysis to represent subgroups of the sample in your study. Dummy variables are useful because they enable us to use a single regression equation to represent multiple groups.

In day 3, technical session 1 Andi-12 was handled by Dr. Rinu Jose, Assistant Professor, Department of Economics K. College Mannanam, She handled the topics Logistic

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for analyzing a dataset in which there are one or more independent variables that determine an outcome. The outcome is measured with a dichotomous variable. It is used to predict a binary outcome for given a set of independent variables. Multinomial Logistic Regression is the regression analysis to conduct when the dependent variable is nominal with more than two levels. Similar to multiple linear regression, the multinomial regression is a predictive analysis. she stated Multinomial logistic regression is a simple extension of binary logistic regression that allows for more than two categories of the dependent or outcome variable. Like binary logistic regression, multinomial logistic regression uses maximum likelihood estimation to evaluate the probability of categorical membership.

The day and work shop ended with the last session Valedictory Session: (4.30 pm to 5pm).the certificates were distributed and reviews were collected from the participants. The workshop was able to instill an understanding about various data analysis tools with a deep theoretical and practical understanding about the concepts behind each tool that is being used. The workshop was highly useful and fruitful especially to get an over all idea about

Palakkad, Kerala

components of research.



Photos of Three Day National Workshop on

Estimation Procedures and Statistical Inferences in Social Science Research

Organized b PG Department of Economics Government College Chittur





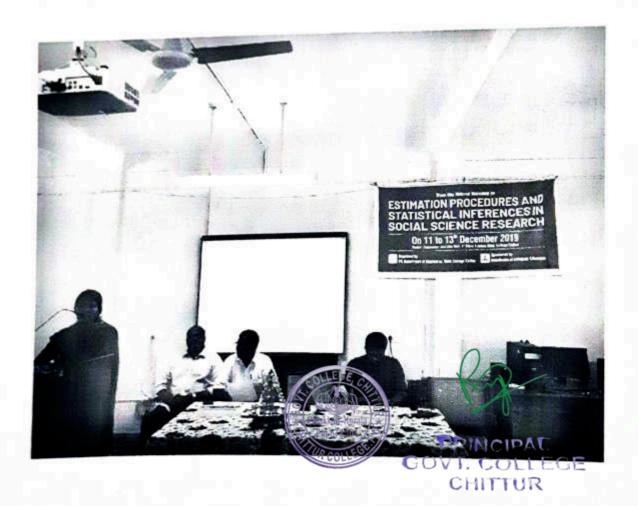




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National Workshop On

"Estimation Procedures & Statistical Inferences in Social Science Research"

December 11, 12 and 13th 2019

Organised by

Post Graduate Department of Economics

Govt. College Chittur

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### REGISTRATION FORM: STUDENTS

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