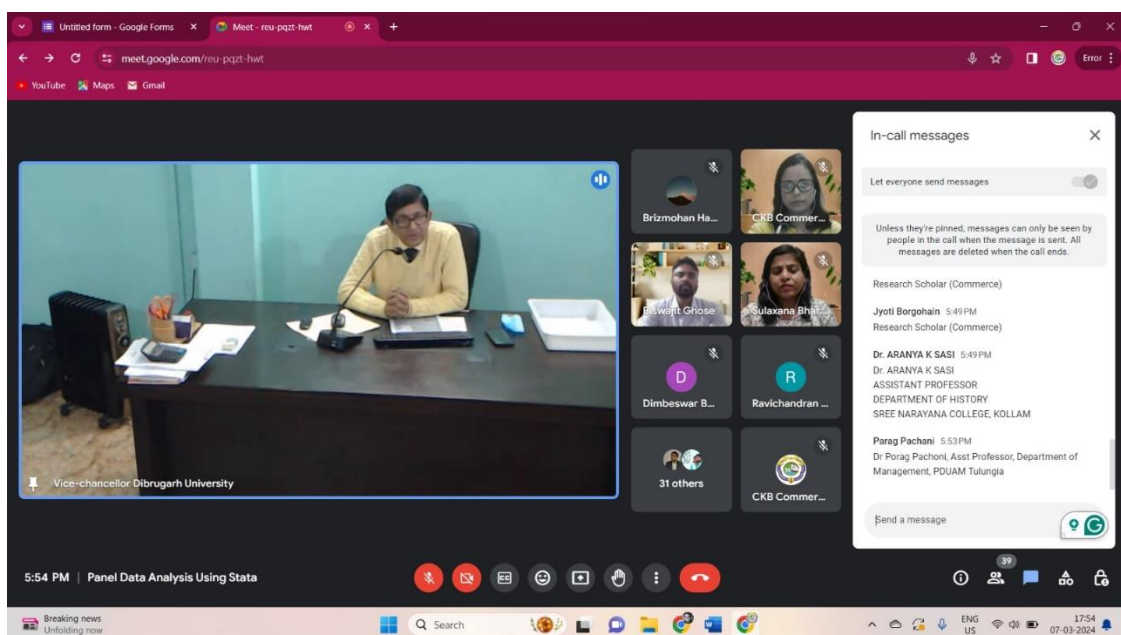
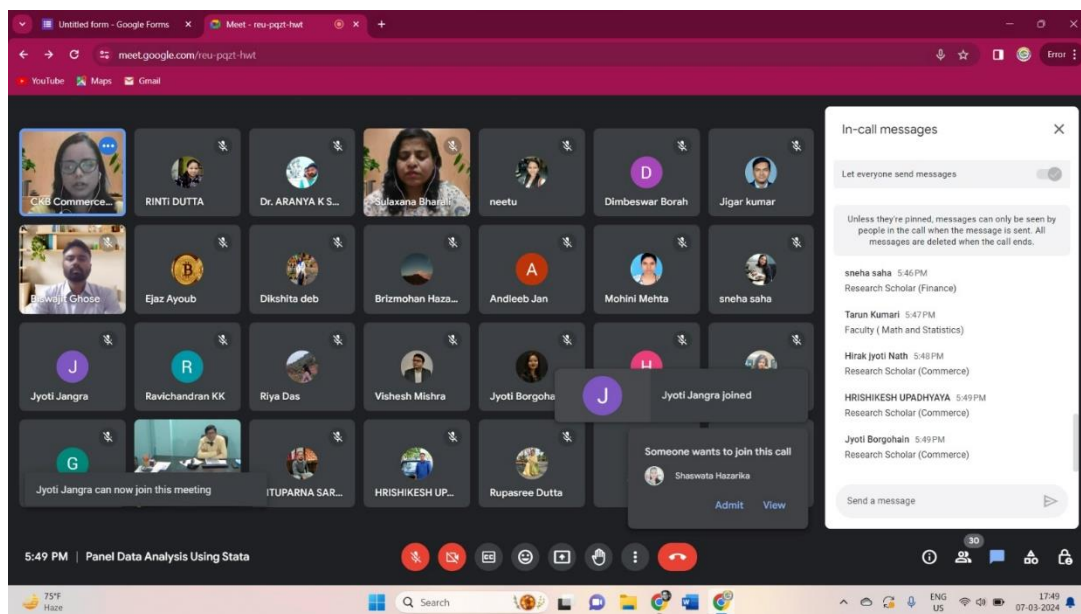


Report on
One week Online National Workshop on Panel Data Analysis using Stata
Organized by Department of Banking
and
Department of Statistics and Mathematics
Date: 07.03.2024-13.03.2024

A one-week online National Workshop on “Panel Data Analysis Using STATA” was organised by the Departments of Banking and Statistics & Mathematics, CKB Commerce College, Jorhat from 07.03.2024 to 13.03.2024. The advancement of study is contingent upon the calibre of data as well as the instruments at hand for its examination. The importance of these analytical techniques has increased due to the paradigm change in research. STATA is one such program or tool that has been in high demand among scholars recently. A statistical software program called STATA is used for statistics, data analysis, visualisation, and automated reporting. The importance of learning how to utilize such software has increased due to the focus on the advancement of research in numerous sectors. Under the aegis of CKB Commerce College, Department of Statistics and Mathematics and Department of Banking has taken the initiative of organising a week-long online workshop on the use of STATA in panel data analysis. The main objective of the workshop is to provide a hands-on learning experience to researchers, academicians and students regarding the use of the software specifically for panel data analysis.



The workshop was coordinated by Dr. Ananya Sarmah, Assistant Professor, Department of Banking with Mr. Manash Pratim Goswami, Assistant Professor, Department of Banking and Dr. Sulaxana Bharali, Assistant Professor, Department of Statistics & Mathematics acting as Organising Secretaries. Dr. Breez Mohan Hazarika, Principal, CKB Commerce College was the patron for the workshop. Dr. Sarat Borah, Vice-principal, CKB Commerce College has been the Chairperson and Dr. Raju Roy, Assistant Professor, Department of Banking and Mr. Rupam Sarma, Associate Professor, Department of Statistics and Mathematics have been the Chief Advisor and Advisor respectively. There were 43 participants in total including 21 participants from various institutions outside of Assam including 1 from Sri Lanka. The rest of the participants were from institutions in Assam and this included participants from CKB Commerce College as well.



The Resource Person for the workshop was Dr. Biswajit Ghose, Assistant Professor, Department of Commerce, Tezpur University. The inaugural session started with a welcome address from Dr. Breez Mohan Hazarika, Principal, CKB Commerce College. The occasion was graced by Prof. Jiten Hazarika, Vice Chancellor, Dibrugarh University, Assam who was the Guest Speaker. Prof. Hazarika spoke on the importance of research and the need to keep oneself upgraded to improve the quality of research. Prof. Hazarika further emphasised on the importance of such workshops which focus on the development of research. After Prof. Hazarika's insightful deliberations, the technical session for Day 1 started with Dr. Biswajit Ghose taking up the session. The focus of Day 1 was on the introduction to Regression Analysis, assumptions of linear regression, introduction to Stata and its Interface. On Day 2,

Dr. Ghose discussed about working importing data, creating variables, renaming variables, graphical representation of data and estimation of simple and multiple Regression Model using Stata. Overview of Panel Data, Difference between Cross-Section, Time Series, and Panel Data, Types of panel data, Concept of Individual Effect and Time-Specific Effect, Loadings and Managing Panel data in Stata were discussed on Day 3. Day 4 started with a discussion on overview of pooled OLS model, overview of random effects model, data exploration and summary statistics folled by a discussion on estimating Pooled OLS and Random Effects Models in Stata and interpreting Random Effect Model Results. Dr. Ghose discussed about the Fixed Effect Model, estimation of Fixed Effect Model using Stata, comparing fixed effects and random effects models and interpreting Fixed Effect Model results on Day 5. On Day 6, Dr. Ghose talked about introduction to Dynamic Panel Data Models, estimation methods for dynamic models, endogeneity and autocorrelation issues in dynamic models, estimation dynamic panel data model (GMM) using Stata and also addressed the various queries and doubts put forward by the participants. He also revised the topics which he had discussed on the previous days. The workshop ended with a valedictory session with feedbacks from the participants. Many participants pointed out that the workshop was a great learning experience and it was very helpful for them. Dr. Ghose also extended his gratitude to the organising committee for the successful organisation of the workshop. A concluding remark was presented by Dr. Ananya Sarmah. The workshop ended with a vote of thanks by Dr. Raju Roy.

