"Comprehensive Stata Training: General Data Analysis & Financial Modeling"

AGENDA

DAY 1: 5th August 2024			
Resource Person: Mr. Ishitva Upadhyay			
Session no.	**Topic**	**Time**	**Description**
Session 1	Introduction to Stata	11:00 AM - 11:30 AM	Overview of Stata interface and basic functionalities. Understanding Stata windows. Introduction to Stata file types (.do, .dta, .log).
	Data Management Basics	11:30 AM- 12:00 PM	Importing data from various sources. Data cleaning and preparation. Using labels and value labels for variables.
Session 2	Basic Data Analysis	12:00 PM - 12:30 PM	Generating descriptive statistics and frequency distributions. Creating simple tables and graphs. Introduction to summary commands (summarize, tabulate).
	Introduction to Do-Files and Tips	12:30 PM - 01:00 PM	Writing and executing basic do-files. Understanding the importance of reproducibility in analysis. Tips for organizing and commenting on code.

	01:00 PM – 02:00 PM: Lunch Break		
Session 3	Basic Statistical Analysis	02:00 PM - 02:45 PM	Introduction to simple and multiple linear regression. Overview of hypothesis testing: t-tests and chi-square tests. Using Stata's graphical capabilities to visualize data.
	Session wrap-up quiz	02:45 PM - 03:00 PM	
Session 4	How to visualize data through STATA	03:00 PM - 03:45 PM	Basic Graphs (Histograms, Bar Graphs, Pie Charts, Scatter Plots (Basic Scatter Plots, Adding Regression Lines) Line Graphs(Simple Line Graphs, Multiple Lines) Box Plots, Dot Plots, Matrix Plots, Time Series Plots Customizing Graphs(Titles and Labels, Colors and Patterns, Saving and Exporting) Advanced Graphs
	Session wrap-up quiz	03:45 PM - 04:00 PM	
End of Day 1			

Session No.	Topic	Time	Description
DAY 2: 6th August 2024			
Recap		11:00 AM - 11:10 AM	Recap
Session 5	Introduction to Financial Data Analysis	11:10 AM – 12:10 PM	Understanding financial data structures and time series data. Importing and managing financial datasets in Stata. Basic financial statistics Returns, volatility, and descriptive measures.
	Advanced Financial Analysis	12:10 PM - 01:00 PM	Performing time series analysis: ARIMA models and forecasting. Introduction to panel data analysis for financial data. Case study: Analyzing stock market data using Stata.
01:00 PM – 02:00 PM: Lunch Break			

Session 6	Econometric Techniques in Stata	02:00 PM - 03:00 PM	Introduction to econometric models Performing econometric analysis with financial data. Case study: Estimating risk factors and evaluating investment strategies.
	Session wrap-up quiz	03:00 PM to 03:15 PM	
Session 7	Summarizing and Q&A	03:15 PM - 03:45 PM	Summary of Training Sessions Open floor for questions and troubleshooting. Discussing real-world applications and advanced techniques.
	Workshop wrap-up quiz	03:45 PM to 04:00 PM	**Interactive Quiz Session**
End of Day 2			