Econometric Modeling Using EViews

3 - Day Professional Development Training Course

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East Asia Training & Consultancy Pte Ltd, invites you to attend a three day professional development training course in Singapore, covering the use of econometrics using the latest EViews, the well-known econometrics and statistical software package developed by Quantitative Micro Software (USA).

About EViews

"EViews provides sophisticated data analysis, regression, and forecasting tools on Windows-based computers. With EViews you can quickly develop a statistical relation from your data and then use the relation to forecast future values of the data. Areas where EViews can be useful include: scientific data analysis and evaluation, financial analysis, macroeconomic forecasting, simulation, sales forecasting, and cost analysis." (EViews User's Guide, p.5)

Objective:

To make you comfortable with data analysis using most advanced econometrics methodologies using Eviews.

Course Programme

This course provides the training on using Eviews to do Macroeconometric & Financial Modeling and Forecasting. The modeling techniques taught in this course include OLS, 2SLS, GMM, IV, unit roots test, AR model, MA model, ARMA model, ARIMA model, Cointegration, Engle-Granger two step cointegration test, multivariate Johansen cointegration test, error correction model, VAR model, VARX model, VECM model, Granger block causality test, ARCH and GARCH family models etc.

This course has three objectives: (i) to provide participants with productivity enhancing ways to use the EViews© econometrics package (ii) to provide a

practical 'hands-on' application to modern time series econometric techniques, including unit root tests, vector autoregressions, cointegration, and error correction modelling and (iii) to apply these time series tools to macroeconomic relationships on real world applications . The focus will be on model selection, estimation and forecasting.

This well-received three-day training stresses more on application and leaves time for participants to have more experimentation with alternative datasets with the applied concepts. Participants are welcomed to bring their own datasets for country (ries) they are working on.

The course will take place in a PC training environment; the pedagogic approach is 'hands-on' and interactive. The instructor will first sketch the necessary theory, focusing on intuition building rather than formalism. Preselected datasets will then be used to go through actual applications with participants.

Who Should Attend

The course is aimed at forecasters and researchers in: Economic Research, Model Building; Financial Modelling, Arbitrage Trading; Quantitative Investment Management, Sales & Inventory Forecasting, Traffic Modelling, Energy Load Forecasting, University Instruction, Audit, Statistics, Budget Analysis, Financial Analysis, Market Research, Information Technology and Policy, Planning & Research.

Registration & Fees

The cost fee for the three-day course covers extensive course materials and databases, luncheons, and opportunities to meet with researchers and forecasters from different industries throughout Asia.

This is a "hands-on" course. Participants are required to bring your own preinstalled EViews laptops.

The number of delegates is restricted. Please register early to guarantee your place. Please complete the official registration form and email it to us at eviews@eastasiatc.com.sg to reserve your place. Further instructions will be sent to confirmed participants.

Financial Assistance

Participants may be eligible for MAS Financial Sector Development Fund (FSDF) support on a case by case basis. Interested applicants should submit their

applications to the FSDF Secretariat directly. For enquiries, please contact the FSDF secretariat at 65- 6229 9396 or via email at fsdf@mas.gov.sg.

Course Outline (subject to minor changes)

Day One: Eviews Basics Introduction

- ✓ Data handling/File management
- ✓ Descriptive Statistics, Empirical distributions
- ✓ Logics, dummy variables
- ✓ Tables, Cross Tabulations
- ✓ Graphs and presentations of data

Case Studies- Discuss Applications of the above topics using given data sets/your own data sets.

Day Two: Data Modeling

- ✓ Linear and multiple Regressions, diagnostics, forecasting
- ✓ Generalized least squares
- ✓ Binary dependent variable models – Probit and logit models
- ✓ Basics of time series models- Correlograms, AR and ARMA Models

Case Studies- Discuss Applications of the above topics using given data sets/your own data sets.

Day Three: Advance Topics

- ✓ Conditional Hetroskedasticity Models- ARCH, GARCH
- ✓ Multivariate GARCH models, Dynamic Conditional Correlation model
- ✓ Unit Root and Co-Integration analysis
- ✓ VAR and Error Correction models

Case Studies- Discuss Applications of the above topics using given data sets/your own data sets.

We used stock price data, oil-market prices data, Survey data and certain macroeconomics data sets in our applications to make you familiar with real world applications using Eviews.