



EXECUTIVE TRAINING COURSE

PROGRAMME

Forecasting for Banking Using Time Series Methods

29 September - 31 October 2025

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Introduction

This course provides an introduction to time series methods for modeling and forecasting economic and financial variables within a banking context. Forecasting plays a crucial role in decision-making for both the public and private sectors and is especially significant for banking institutions, whether in management or supervision. Banks' assets and liabilities are shaped by various factors, including economic and financial conditions, interest rates, and the prices of financial assets. These variables emerge from a vast, complex, dynamic, and stochastic system, making accurate forecasting a challenging task where errors are inevitable. However, by applying appropriate econometric models and methods, forecast errors can be minimised, and forecasting precision can be significantly improved.

Topics

- Module 1: Modelling economic and financial variables (ARMA) + Empirical application in Eviews using simulated and actual economic and financial data
- Module 2: Forecasting economic and financial variables using the ARMA model + Empirical application in Eviews using simulated and actual economic and financial data (focusing on forecasting and forecasting performance)
- Module 3: Modelling and forecasting economic and financial variables using VAR models + Empirical application in Eviews using simulated and actual economic and financial data (focusing on forecasting and shock transmission)
- Module 4: Cointegration and error correction models + Empirical application in Eviews using simulated and actual economic and financial data (focusing on cointegration analysis and forecasting)

Faculty

Massimiliano Marcellino | Bocconi University

Level | Intermediate - Advanced

Approach | Quantitative

Learning Objectives

- Develop skills in specifying, estimating, and evaluating univariate ARIMA models and multivariate VAR models for macroeconomic and financial variables relevant to the banking sector
- Learn to construct point, interval, and density forecasts
- Understand shock identification and transmission mechanisms
- Explore the interaction between short-run and long-run dynamics through ECM modeling

Format

This course combines self-paced materials with live online activities to provide a flexible and engaging learning experience.

You will access course materials and interact with instructors, teaching assistants, and fellow participants directly from your own devices. The course includes video lectures for exploring theoretical concepts, complemented by small work assignments and lab sessions. During these live online sessions, you will engage in practical exercises using EViews, guided by the course instructor and teaching associates.

The format ensures ample opportunities for Q&A and collaboration. You will benefit from close guidance throughout the course, with multiple chances to receive individual feedback and interact with both the instructor and teaching assistants.

Time required from participants: 20 hours

29 SEPTEMBER

Start of the course

Access to all course modules

2 OCTOBER

15:00 - 16:30

Brush up session

3 OCTOBER

15:00 - 17:00 Teaching Assistant-led office hours

9 OCTOBER

15:00 - 17:00 First live class: recap of modules 1-2 + Q&A

14 OCTOBER

15:00 - 17:00 Announcement of the competition and Teaching Assistant-led office hours

15 OCTOBER

- 15:00 17:00 Second live class: Lab 1
- 17:00 18:30 Teaching Assistant-led office hours

23 OCTOBER

15:00 - 17:00 Third live class: recap modules 3-4 + Q&A

27 OCTOBER

- 15:00 17:00 Fourth live class: Lab 2
- 17:00 18:30 Teaching Assistant-led office hours

30 OCTOBER

Deadline for competition submission

31 OCTOBER

16:00

Announcement of competition results during final live class

End of the course



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