INTERNATIONAL MONETARY FUND

Joint Vienna Institute / IMF Institute for Capacity Development – European and Middle Eastern Division

Course on Macroeconomic Forecasting (JV14.10MF)

Vienna, Austria

April 21-May 2, 2014

PROGRAM¹

Monday, April 21		
8:30 a.m. – 9:00 a.m.		Administrative Briefing
9:00 a.m. – 9:30 a.m.		Opening Session Mr. Norbert Funke, Director, JVI; and Mr. Charis Christofides Senior Economist, European and Middle Eastern Division, IMF Institute for Capacity Development (ICD)
9:30 a.m. – 12:30 p.m.	L-1	Overview of Macroeconomic Forecasting Mr. Charis Christofides
2:00 p.m. – 5:30 p.m.	W-1	Workshop: Introduction to Forecasting Using EViews Dmitry Plotnikov, Economist, ICD; and Professor Kaddour Hadri Consultant, European and Middle Eastern Division, ICD
Tuesday, April 22		
9:00 a.m. – 11:00 a.m.	L-2	Properties of Time Series Data I: Stationarity, Box Jenkins ARIMA Models Mr. Charis Christofides
11:30 a.m. – 12:30 p.m.	W-2	Workshop: Estimating and Forecasting ARIMA Models using EViews Messrs. Charis Christofides and Dmitry Plotnikov
2:00 p.m. – 4:00 p.m.	L-3	Properties of Time Series Data II: Nonstationarity and Unit Roots Mr. Dmitry Plotnikov
4:30 p.m. – 5:30 p.m.	W-3	Workshop: Testing for Nonstationarity using EViews Mr. Dmitry Plotnikov and Mr. Charis Christofides

 $^{^{1}}$ Unless otherwise stated, coffee breaks are held from 11:00 a.m. - 11:30 a.m. and from 4:00 p.m. - 4:30 p.m. Lunch breaks will be from 12:30 p.m. - 2:00 p.m.

Wednesday, April 23		
9:00 a.m. – 11:00 a.m.	L-4	Cointegration I – Single Equation Estimation, Error Correction Models, and Forecasting Mr. Kaddour Hadri
11:30 a.m. – 12:30 p.m.	W-4	Workshop: Forecasting using Single Equation Estimation Methods and ECM Models Mr. Kaddour Hadri and Mr. Dmitry Plotnikov
2:00 p.m. – 4:00 p.m.	L-5	Evaluating Regression Models Mr. Dmitry Plotnikov and Mr. Kaddour Hadri
4:30 p.m. – 5:30 p.m.	W-5	Workshop: Evaluating Regression Models Mr. Dmitry Plotnikov and Mr. Kaddour Hadri
Thursday, April 24		
9:00 a.m. – 11:00 a.m.	L-6	Forecast Uncertainty and Forecast Evaluation Mr. Dmitry Plotnikov
11:30 a.m. – 12:30 p.m.	W-6	Workshop: Approaches to Forecasting for Policy Analysis Messrs. Dmitry Plotnikov and Charis Christofides
2:00 p.m. – 5:30 p.m.	O-1	Preparation for Participant Presentations
Friday, April 25		
9:00 a.m. – 11:00 a.m.	L-7	Vector Autoregression (VAR), Structural VAR Models, Impulse Response Functions (IRFs) Mr. Kaddour Hadri
11:30 a.m. – 12:30 p.m.	W-7	Workshop: VAR and IRF Application: UK Money Demand – Part I Mr. Kaddour Hadri and Mr. Dmitry Plotnikov
2:00 p.m. – 4:00 p.m.	L-8	Cointegration II: Johansen Methodology Mr. Dmitry Plotnikov
4:30 p.m. – 5:30 p.m.	W-8	Workshop: UK Money Demand – Part II Mr. Dmitry Plotnikov and Kaddour Hadri
Monday, April 28		
9:00 a.m. – 11:00 a.m.	L-9	Vector Error Correction Models: Formulation, Hypothesis Testing, and Forecasting Mr. Kaddour Hadri
11:30 a.m. – 12:30 p.m	W-9	Workshop: Forecasting using a VECM Mr. Kaddour Hadri and Mr. Dmitry Plotnikov

Monday, April 28 (continued)				
2:00 p.m. – 3:30 p.m.	L-10	State Space Representation of Dynamic Models Mr. Charis Christofides		
4:00 p.m. – 5:30 p.m.	L-11	Forecasting and Smoothing Using the Kalman Filter Mr. Charis Christofides		
Tuesday, April 29				
9:00 a.m. – 10:30 a.m.	W-10	Workshop: Selected Kalman Filter Applications Mr. Charis Christofides and Mr. Kaddour Hadri		
11.00 a.m. – 12.30 p.m.	W-11	Workshop: Applying the Kalman Filter to the Signal Extraction Model Mr. Charis Christofides and Mr. Kaddour Hadri		
2:00 p.m. – 4:00 p.m.	L-12	Combining Forecasts from Different Sources Mr. Mikhail Pranovich (Economist, JVI)		
4:30 p.m. – 5:30 p.m.	W-12	Workshop: Combining Forecasts Mr. Mikhail Pranovich and Mr. Charis Christofides		
Wednesday, April 30				
9:00 a.m. – 11:00 a.m.	L-13	Modeling and Forecasting Volatility: The ARCH model and its Descendants Mr. Charis Christofides		
11:30 a.m. – 12:30 p.m.	W-13	Workshop: Forecasting Macroeconomic Volatility Mr. Charis Christofides and Mr. Kaddour Hadri		
2:00 p.m. – 5:30 p.m.	L-14	Modeling Strategies and Policy Analysis: Inflation in Australia Mr. Kaddour Hadri		
Thursday, May 1				
9:00 a.m. – 12:30 p.m.	L-15	Practical Considerations for Implementing Macro Forecasting Procedures Mr. Charis Christofides		
2:00 p.m. – 5:30 p.m.	O-1	Preparation for Participant Presentations (concluded)		
Friday, May 2				
9:00 a.m. – 11:30 a.m.	O-2	Participant Presentations		
11:30 a.m. – 12:30 p.m.		Closing Session and Presentation of Certificates		