## INTERNATIONAL MONETARY FUND

#### Joint Vienna Institute / IMF Institute for Capacity Development

### Course on Macroeconomic Forecasting (JV15.05 MF)

### Vienna, Austria

# March 2–13, 2015

Reading List		
Session	Торіс	
L-1	Review of Statistical Tools and the Classical Regression Model	
	Required:	
	IMF Institute, 2010, "Chapter 1: Basic Empirical Methods," in <i>Introduction to Financial Programming</i> (Washington: International Monetary Fund).	
	Supplementary:	
	Diebold, F.X. , 1998, "The Past, Present and Future of Macroeconomic Forecasting," <i>Journal of Economic Perspectives</i> , 12, 175-192.	
	Pagan, Adrian, 2002, "What is a Good Macroeconomic Model for a Central Bank to Use?" Comments presented at the conference, <i>Macroeconomic Models for</i> <i>Monetary Policy</i> , sponsored by the Federal Reserve Bank of San Francisco and the Stanford Institute for Economic Policy Research (March 1-2). Available via: <u>http://www.frbsf.org/economics/conferences/0203/comments.pdf</u>	
W-1	Workshop: Introduction to Forecasting Using EViews	
	Required:	
	EViews 7 User's Guide I, 2009, Chapter 2 "A Demonstration," (Irvine, CA: Quantitative Micro Software, LLC), pp. 13–32.	
	EViews 7 Users Guide II, 2009, Chapter 22 "Forecasting from an Equation," and Chapter 34 "Models," pp. 111–138 and pp. 511–562 (Irvine, CA: Quantitative Micro Software, LLC).	
	Supplementary:	
	EViews 7 Users Guide I, 2009, Chapters 3–6, pp. 33–154 (Irvine, CA: Quantitative Micro Software, LLC).	

L–2	Evaluating Regression Models
	Required:
	Enders, Walter, 2010, "Chapter 2: in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 103–110.
	EViews 7 Users Guide II, 2009, Chapter 6 "Specification and Diagnostic Tests" pp. 139–186 (Irvine, CA: Quantitative Micro Software, LLC).
	Supplementary:
	Hamilton, J. D., 1994, Chapter 8, "Time Series Analysis", <i>Princeton University Press</i> , Princeton, New Jersey.
L3	Properties of Time Series Data I: Stationarity, Box Jenkins ARIMA Models
	Required:
	Enders, Walter, 2010, "Chapter 2: Stationary Time-Series Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 49–120.
L-4	Properties of Time Series Data II: Non-stationarity and Unit Roots
	Required:
	Enders, Walter, 2010, "Chapter 4: Models with Trend," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 181–271.
	Supplementary:
	Dickey, D.A., and Fuller, W. A., 1979, "Distribution of the Estimators for Autoregressive Time Series with a Unit Root," <i>Journal of the American Statistical</i> <i>Association</i> , Vol. 74, pp. 427–431.
	Available via: http://www.deu.edu.tr/userweb/onder.hanedar/dosyalar/1979.pdf
	Elder, J., and P.E. Kennedy, 2001, "Testing for Unit Roots: What Should Students be Taught?", <i>Journal of Economic Education</i> , Vol. 32, No. 2, pp. 137–46.
	Available via: http://www.ufrgs.br/decon/virtuais/eco02007u/pasta/artigos/elder%20kennedy.pdf

L-5	<b>Cointegration I – Single Equation Estimation, Error Correction Models, and Forecasting</b>
	Required:
	Enders, Walter, 2010, "Chapter 6: Cointegration and Error-Correction Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.) pp. 356–365, pp. 382–385, and pp. 425–427.
	Supplementary:
	Engle, R. F. and C. W. J. Granger, 1987, "Co-integration and error correction: Representation, estimation, and testing," <i>Econometrica</i> , Vol 55, pp. 251–276.
	Stock, J. and M. Watson, 1993, "A Simple Estimator of Cointegrating Vectors in Higher Order Integrated Systems," <i>Econometrica</i> , Vol. 61, No.4, pp. 783–820.
	Phillips, Peter and Bruce Hansen, 1990, "Statistical Inference in Instrumental Variables Regression with I(1) Processes," <i>Review of Economic Studies</i> , Vol. 57, pp. 99–125.
L6	Forecast Uncertainty and Forecast Evaluation
	Required:
	Enders, Walter, 2010, "Chapter 5: Multiequation Time-Series Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 272–355.
	Eviews 7 Users Guide II, 2009, Chapter 5, "Forecasting from an Equation", pp.139–186, (Irvine, CA: Quantative Micro Software, LLC).
	Supplementary:
	Clark, T., and K. West, 2007, "Approximately Normal Test for Equal Predictive Accuracy in Nested Models", <i>Journal of Econometrics</i> , Vol. 138, pp 291–311.
	Available via: http://www.ssc.wisc.edu/~kwest/publications/2000/Approximately%20Normal%2 0Tests%20for%20Equal%20Predictive%20Accuracy%20in%20Nested%20Models .pdf
	Diebold, Francis X.,. and R. Mariano, 1995, "Comparing Predictive Accuracy:", <i>Journal of Business and Economic Statistics</i> , Vol. 13, pp. 253–63.
	Available via: http://www.ssc.upenn.edu/~fdiebold/papers/paper68/pa.dm.pdf

L-7	Vector Autoregression (VAR), Structural VAR Models, Impulse Response Functions (IRFs)
	Required:
	Enders, Walter, 2010, "Chapter 6: Cointegration and Error-Correction Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 385–405.
	Eviews 7 Users Guide II, 2009, Chapter 21 "Cointegration Testing", pp. 139–186 (Irvine, CA: Quantitative Micro Software, LLC).
	Supplementary:
	Hamilton, J.D., 1994, Chapter 11 "Time Series Analysis", <i>Princeton University Press</i> , Princeton, New Jersey.
	Kilian, Lutz, 2013, "Structural Vector Autoregressions", Chpater 22 in Handbook of Research Methodfs and Empirical Applications in Macroeconomics, Elgar, Chatenam, UK.
	Available via: http://www-personal.umich.edu/~lkilian/paperlinks.html
L8	Cointegration II: Johansen Methodology
	<b>Required:</b> Enders, Walter, 2010, "Chapter 6: Cointegration and Error-Correction Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 385–405.
	Eviews 7 Users Guide II, 2009, Chapter 21 "Cointegration Testing", pp. 139–186 (Irvine, CA: Quantitative Micro Software, LLC).
	Supplementary:
	Johansen, Soren, 1995, "Likelihood-based Inference in Cointegrated Vector Autoregressive Models", <i>Oxford University Press</i> , UK.
	Johansen, Soren, 1988, "Statistical Analysis of Cointegration Vectors," <i>Journal of Economic Dynamics and Control</i> , Vol. 12, No. 2–3, pp. 231–254.
L-9	Vector Error Correction Models: Formulation, Hypothesis Testing, and Forecasting
	Required:
	Eviews 7 Users Guide II, 2009, Chapter 5, "Forecasting from an Equation", pp.139–186, (Irvine, CA: Quantative Micro Software, LLC).
	Supplementary:
	Hamilton, J.D., 1994, Chapter 19 "Time Series Analysis", <i>Princeton University Press</i> , Princeton, New Jersey.
	Johansen, Soren, 1988, "Statistical Analysis of Cointegration Vectors," <i>Journal of Economic Dynamics and Control</i> , Vol. 12, No. 2–3, pp. 231–254.

	Clark, T., and K. West, 2007, "Approximately Normal Test for Equal Predictive Accuracy in Nested Models", <i>Journal of Econometrics</i> , Vol. 138, pp 291–311.
L-10	<b>Combining Forecasts from Different Sources</b>
	Required:
	Stock, James H., and Mark W. Watson, 2004, "Combination Forecasts of Output Growth in a Seven-Country Data Set," <i>Journal of Forecasting</i> , Vol. 23, No. 6, pp. 405–430. Prepublication draft of paper available via:
	http://www.princeton.edu/~mwatson/papers/apf_4.pdf
	Supplementary:
	Clemen, Robert, 1985, "Combining Forecasts: A Review and Annotated Bibliography," <i>International Journal of Forecasting</i> , Vol. 5, No. 4, pp. 559–583.
	Hansen, Bruce E., 2007, "Least Squares Model Averaging," <i>Econometrica</i> , Vol. 75, No. 4, pp. 1175–1189.
	Aiolfi, Capistran and Timmerman, 2010, Forecast Handbook, Oxford.
L-11	Modeling Strategies and Policy Analysis: Inflation in Australia
	Required:
	de Brouwer, Gordon, and Neil R. Ericsson, 1998, "Modeling Inflation in Australia," <i>Journal of Business and Economic Statistics</i> , Vol. 16, No. 4, pp. 433– 449. Working paper version available via:
	http://www.federalreserve.gov/pubs/ifdp/1995/530/ifdp530.pdf
L-12	Modeling and Forecasting Volatility: Univariate and multivariate ARCH Models
	Required:
	Enders, Walter, 2010, "Chapter 3: Modeling Volatility," and "Chapter 7: Nonlinear Time-Series Models," in <i>Applied Econometric Time Series</i> (New York: John Wiley & Sons, 3 <sup>rd</sup> ed.), pp. 121–180 and pp. 428–487.
	Supplementary:
	Bollerslev, Tim, 1986, "Generalized Autoregressive Conditional Heteroskedasticity," <i>Journal of Econometrics</i> , Vol. 31, No. 3, pp. 307–327.
	http://econ.duke.edu/~boller/Published_Papers/joe_86.pdf
L-13	Practical Considerations for Implementing Macro Forecasting Procedures
	No reading assigned.