

# Phd in Economics, University of Perugia

XXXI° Cycle

	<b>Italiano</b>	<b>English</b>
<b>Docente/Instructor</b>	Pierluigi Daddi/Andrea Silvestrini	Pierluigi Daddi/Andrea Silvestrini
<b>Titolo/Title</b>	ECONOMETRIA DELLE SERIE STORICHE	TIME SERIES ECONOMETRICS
<b>MODULO A/PART A (9 ORE / 9 HOURS)</b>	SERIE STORICHE IN ECONOMIA (DADDI)	TIME SERIES MODELS IN ECONOMICS (DADDI)
	<p>Modelli ARMA e loro specificazioni alternative nelle serie storiche                      Modelli ARMA per la stagionalità: specificazione e applicazioni.                      Modelli di Volatilità nell'analisi statistica finanziaria</p> <p>Analisi spettrale parametrica e non parametrica: definizione, stima e applicazioni</p>	<p>General Linear Stationary ARMA Models and their alternative specifications in Time Series Analysis.                      Seasonal ARMA Models: building and application.                      Volatility Models in Financial Statistical Analysis.                      Parametric and non Parametric Spectral Analysis: definition, estimation and applications</p>
<b>Testi/Reading list</b>	G.E. P. Box, G. M. Jenkins, G. C. Reinsel, (2008): Time Series Analysis. Wiley. M. B. Priesley (1981): Spectral Analysis and Time Series. Academic Press, New York.	G. E. P. Box, G. M. Jenkins, G. C. Reinsel, (2008): Time Series Analysis. Wiley. M. B. Priesley (1981): Spectral Analysis and Time Series. Academic Press, New York.
<b>Mese/Month*:</b>	Giugno	June
<b>MODULO B/PART B (9 ORE / 9 HOURS)</b>	STIMA E ANALISI DEI MODELLI VAR (SILVESTRINI)	VAR ESTIMATION AND STRUCTURAL VAR ANALYSIS (SILVESTRINI)
<b>Contenuti/Contents (Modulo B/Part B)</b>	<p>Topics will include:                      vector autoregressions (VAR) models, Bayesian VAR estimation, structural VAR identification                      Se il tempo lo permette si mostrerà l'implementazione di modelli VAR in MATLAB (identification e stima).</p> <p>Agli studenti sarà chiesto di risolvere un problema di stima, usando il package statistic che preferiscono.</p>	<p>Topics will include vector autoregressions (VAR) models, Bayesian VAR estimation, structural VAR identification by means of zero and sign restrictions (presenting empirical applications in macro).                      If time allows, implementation of VAR in MATLAB (estimation and identification) will be presented.                      After classes, students will be asked to solve a simple estimation problem using their preferred software package.</p>
<b>Testi/Reading list (Modulo B/Part B)</b>	<p>Lütkepohl H. (2005). New Introduction to Multiple Time Series Analysis, Springer: Berlin.</p> <p>Sims, C. (1980). "Macroeconomics and Reality", Econometrica, pp. 1-48.                      Bauwens, L., M. Lubrano and J.-F. Richard</p>	<p>Lütkepohl H. (2005). New Introduction to Multiple Time Series Analysis, Springer: Berlin.</p> <p>Sims, C. (1980). "Macroeconomics and Reality", Econometrica, pp. 1-48.                      Bauwens, L., M. Lubrano and J.-F.</p>

	<p>(1999). Bayesian Inference in Dynamic Econometric Models, Oxford University Press, Oxford.</p> <p>Kadiyala, K. R., and S. Karlsson (1997). "Numerical Methods for Estimation and Inference in Bayesian VAR-Models", Journal of Applied Econometrics, 12: pp. 99-132.</p> <p>R.B. Litterman (1986). "Forecasting with Bayesian Vector Autoregressions: Five Years of Experience", Journal of Business &amp; Economic Statistics, 4, pp. 25-38.</p> <p>Fry, R., and A. Pagan (2011). "Sign Restrictions in Structural Vector Autoregressions: A Critical Review", Journal of Economic Literature, 49: pp. 938-960.</p> <p>Uhlig, H. (2005). "What are the Effects of Monetary Policy? Results from an Agnostic Identification Procedure", Journal of Monetary Economics, 52: pp. 381-419.</p> <p>Peersman, G. (2005). "What Caused the Early Millennium Slowdown? Evidence Based on Vector Autoregressions", Journal of Applied Econometrics, 20: pp. 185-207.</p> <p>Binning, A. (2013). "Underidentified SVAR models: A framework for combining short and longrun restrictions with sign-restrictions", Norges Bank Working Papers Series.</p>	<p>Richard (1999). Bayesian Inference in Dynamic Econometric Models, Oxford University Press, Oxford.</p> <p>Kadiyala, K. R., and S. Karlsson (1997). "Numerical Methods for Estimation and Inference in Bayesian VAR-Models", Journal of Applied Econometrics, 12: pp. 99-132.</p> <p>R.B. Litterman (1986). "Forecasting with Bayesian Vector Autoregressions: Five Years of Experience", Journal of Business &amp; Economic Statistics, 4, pp. 25-38.</p> <p>Fry, R., and A. Pagan (2011). "Sign Restrictions in Structural Vector Autoregressions: A Critical Review", Journal of Economic Literature, 49: pp. 938-960.</p> <p>Uhlig, H. (2005). "What are the Effects of Monetary Policy? Results from an Agnostic Identification Procedure", Journal of Monetary Economics, 52: pp. 381-419.</p> <p>Peersman, G. (2005). "What Caused the Early Millennium Slowdown? Evidence Based on Vector Autoregressions", Journal of Applied Econometrics, 20: pp. 185-207.</p> <p>Binning, A. (2013). "Underidentified SVAR models: A framework for combining short and longrun restrictions with sign-restrictions" , Norges Bank Working Papers Series</p>
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