

TOPICS ON APPLIED MACRO & LABOUR

ADVANCED BLOCK 1

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SYLLABUS:

Topic 1. VAR Models in Macro (Brief overview)

- 1.1 General Framework (VAR, ECM, SVAR)
- 1.2 Estimation of VAR, ECM & SVAR Models
- 1.3 Identifying Restrictions: Short & Long-Run, Sign and Heteroskedasticity
- 1.4 Specifying the Co-integrating Rank
- 1.5 Bayesian VARs

Topic 2. Empirical Applications

- 2.1 Inflation shocks and Money Neutrality
- 2.1 Labour Market Shocks
- 2.2 Identifying Monetary Policy Switching Regimes
- 2.3 What Do VARs Mean when Shocks are Persistent?
- 2.4. Stock Prices, News Shocks & the Business Cycle
- 2.5 An Attack on RBC Models: Technology vs. Demand Shocks
- 2.6 Using DSGE Models to Check Identification in SVARs

Topic 3. Modelling Integrated and Cointegrated Variables

- 3.1 Asymptotic Properties of Integrated Variables
- 3.2 The I(1) Regression Model
- 3.3 Fully- Modified Estimation & Dynamic OLS
- 3.4 Fractional Integration & Cointegration
- 3.5 Cointegration and Multicointegration
- 3.6 Johansen's Reduced Rank Approach
- 3.7 ML Estimation of Common Factors
- 3.8 Co-integration in Panel Data Sets

Topic 4. Miscellanea

- 4.1 Structural Breaks
- 4.2 Modelling TS with Changes in Regime through Markov Chains
- 4.3 Marked-Point Processes
- 4.4 Estimation of Taylor Rules & NK Phillips Curves
- 4.5 Large Dimensional Factor Models (Estimation, Forecasting, Breaks)
- 4.6 Testing for Bubbles.
- 5.9 Calibration /Estimation of Search & Matching Models

BASIC REFERENCES:

Textbooks

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2. Cahuc, P. and A. Zylberberg (2004): **Labor Economics**, MIT Press, chapters 9-10
2. Hamilton, J. (1994): **Time Series Analysis**, Princeton University Press, chapter 22 (*)
3. Johansen, S. (1995): **Likelihood Based Inference in Cointegrated Autoregressive Models**, Oxford University Press, chapters 1-3 (*)

Surveys

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3. Kilian, L. (2011): **Structural Vector Autoregressions**, http://www-personal.umich.edu/~lkilian/elgarhdbk_kilian.pdf

Articles

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EVALUATION:

HOMEWORK (20%), TAKEHOME EXAM (80%)