



**Academia de Studii Economice**  
**Departamentul de Informatică și Cibernetică Economică**

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**Contest Topics for Associate Professor,  
Position 72, 2016-2017**

**Quantitative Macroeconomics:**

- Macroeconomic modelling basic concepts.
- Macroeconomic modelling principles.
- Main macroeconomic aggregates: construction, evaluation, correlations and fundamental proportions.
- Market mechanism: Neokeynesist equilibrium model on services and good market – IS model
- Market mechanism: Neokeynesist equilibrium model on monetary market and labor market. LM model. Markets equilibrium.
- External sector influence on macroeconomic equilibrium. International trade, protectionist policies analysis
- External sector influence on macroeconomic equilibrium. Exchange rates and balance of payments. Mundell-Fleming model.
- Macroeconomic analysis of aggregate demand, aggregate supply and there inter-dependencies.
- Macroeconomic analysis of inflation and unemployment.
- Consumption and consumption demand models.
- Business cycles: definition, main indicators, economic and political cycles.
- Business cycles: active and passive anti-cyclic policies. National and international crisis.
- Economic growth and European integration.
- Fiscal, budgetary, monetary and mixed policies

**Decision Support Systems:**

- Decision Support Systems (DSS): definition, components, classification
- Data management in DSS: theoretical concepts, types of data sources, data collection methods, data quality dimensions
- Analysis and modeling system: structure, types of models and analysis techniques for forecasting, modeling in spreadsheets, tables and decision trees decision, heuristic programming and numerical simulation
- Knowledge management system: learning, characteristics and objective, methods of knowledge management
- The user interface system: theoretical concepts, examples
- Group decision support system: theoretical concepts, methods for group decisions, examples



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- Advanced DSS design techniques: neural networks, genetic algorithms, examples

**Bibliography:**

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2. Băcescu M., Băcescu-Carbunaru A. , Macroeconomie intermediară, Universitară, Bucuresti, 2004, România
3. Mankiw, N.G. , Macroeconomics The 5-th edition , Worth Publishers , New York, 2002, Statele Unite ale Americii.
4. Popescu Madalina Ecaterina, Georgescu Irina, Sisteme suport pentru decizii economice. Tehnici de analiza si modelare, Editura ASE, Bucuresti, 2016, România
5. Dobre Ion,Hartulari Carmen , Sisteme suport pentru decizii, Editura ASE, Bucuresti, 2009, România
6. Filip,F.G. , Sisteme suport pentru decizii, Editura tehnică, Bucuresti, 2007, România
7. Efraim Turban,Jay E.Aronson,Ting-Peng Liang, Decision support systems and Intelligent systems(7th Edition), Printice Hall International Edition , 2004.