



Academia de Studii Economice
Departamentul de Informatică și Cibernetică Economică

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**Contest Topics for Associate Professor,
Position 76, 2016-2017**

**Database integration with other technologies, Data analysis
software, Software packages**

Database integration with other technologies

1. Information technology - fundamental aspects
2. Object-oriented technology concepts
3. Programming languages
4. Java Platform
5. Web technology
6. Service Oriented Architecture
7. Big data
8. Intranet, Extranet, Grid Computing
9. Cloud Computing

Bibliography:

1. B. Furht, A. Escalante - Handbook of Cloud Computing, Springer Science & Business Media, 2010
2. M.Velicanu, I.Lungu ș.a. – Sisteme de baze de date evoluate, ed. ASE, 2009.
3. K. Mensah – Oracle Database Programming using Java and Web Services, ed. Digital Press, Paperback, 2006.

Data analysis software

1. Fundamentals of analytical data processing. Analytical processing levels.
2. Extracting SAS data subsets, combining data sets. Data cleansing techniques.
3. Data preparation techniques for analyzes: types of analytical tables, working with analytical tables. Transpose and aggregate data.
4. Conditional and iterative processing, graphical representation
5. SAS Macro language: variables, expressions and processing. Call, store, and reuse macro procedures.
6. Procedures for descriptive data analysis.



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Bibliography:

1. Thomas H. Davenport, Jeanne G. Harris, Robert Morison, Analytics at Work: Smarter Decisions, Better Results, Harvard Business Press, 2010
2. Ron Cody, Learning SAS by Example – A Programmer's Guide, SAS Publishing, 2007
3. Gerhard Svolba, Data Preparation for Analytics Using SAS, SAS Publishing, 2006

Software packages

1. Software packages basics. Classification of software. Selecting software packages.
2. Software packages for analytical processing
3. SAS integrated package. Working with data in a project.
4. SAS queries
5. Data processing in SAS
6. Customizing results in SAS
7. Programming in SAS

Bibliography:

1. Neil Constable, SAS Programming for Enterprise Guide Users, Second Edition, SAS Publishing, 2010
2. S. Slaughter and L. Delwiche, The Little SAS Book for Enterprise Guide 4.2, SAS Press, 2010
3. R. W. Starinsky, Maximizing Business Performance through Software Packages: Best Practices for Justification, Selection, and Implementation, CRC Press, 2016