

Contest topics

FOR EMPLOYMENT JOB COMPETITION – POSITION 8, PROFESSOR

DEPARTMENT OF MANAGEMENT INFORMATION SYSTEMS

Disciplines:

- Financial and banking databases management system (Finance and Banking – LICENCE) – In Romanian
- Enterprise information integration (Management Information System -MASTER) – In Romanian)
- ERP Systems (Accounting, controlling and expertise – MASTER) – In Romanian

Contest topics:

1. Databases and database management systems
2. Data representation levels
3. The relational model. Relational algebra
4. Design of relational databases through normalization
5. Integrity and security of databases
6. Client-server architecture
7. SQL language - selection queries
8. SQL language - action queries
9. T-SQL language - stored procedures, user-defined functions
10. T-SQL language - triggers, CTE, recursion
11. SQL Server: creating a database in the financial-accounting domain, creating tables, defining relationships, and importing data from various sources.
12. Reports and their management in SQL Server Reporting Services
13. Integration of maps within SQL Server Reporting Services reports
14. Data Warehouses and the use of OLAP technologies
15. Information integration through SQL Server Integration Services (SSIS) and RPA
16. Information integration through SQL Server Integration Services (SSIS) and artificial intelligence components
17. The production process in the SAP ERP system
18. Products in the SAP ERP system
19. Defining the component lists in the SAP ERP system
20. Management of production orders in the SAP ERP system
21. Management of production cost in the SAP ERP system
22. Sales and distribution in the SAP ERP system
23. The procurement process in the SAP ERP system

24. Financial accounting in the SAP ERP system

Bibliography

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- Florin M., Pavel N., Andrei S., Bogdan I., Ilie T., Baze de date financiar-contabile, Economica, București, 2014, România
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- Kelly Wibbenmeyer, The Simple Implementation Guide to Robotic Process Automation (Rpa): How to Best Implement RPA in an Organization, iUniverse, 2018
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