



ACADEMIA DE STUDII ECONOMICE BUCUREȘTI
DEPARTAMENT MANAGEMENT

Piața Romană nr.7, sector 1, etaj 2,
sala B 201, tel.021 319 19 00, int.165



Contest topics and bibliography for
the position of university professor position 23

Disciplines:

- **Management of Information Systems**
- **ICT Systems for Project Management**
- **Management**

1. **Information systems approach in the context of the global business environment** (global structural changes generated by the IT&C sector; the network economy; development of the information and knowledge-based economy; the digital organization; fundamental concepts in information systems management; classification and quality parameters of information; the organization's information system) – theoretical-methodological elements and case studies.
2. **Main categories of information systems in the organization** (information requirements of the organization; main categories of information systems – architecture, concept, purpose, characteristics; TPS systems – Transaction Processing Systems; MIS systems – Management Information Systems; DSS systems – Decision Support Systems; ESS systems – Executive Support Systems) – theoretical-methodological elements and practical applications.
3. **Information technologies for organizational management** (ERP systems – Enterprise Resource Planning; CRM systems – Customer Relationship Management; systems based on supply chain management SCM – Supply Chain Management; WMS systems – Warehouse Management Systems; automation of operational processes using RPA – Robotic Process Automation) – theoretical-methodological elements and practical applications.
4. **Business Intelligence and Business Analytics tools** (performance management models in organizations; the concepts of Business Intelligence and Business Analytics; tools for multidimensional data analysis – OLAP and Data Mining; the concepts of Data Warehouse and Data Mart; ETL process – Extract-Transform-Load; the transformation of organizational management in the context of AI-based technologies) – theoretical-methodological elements and case studies.
5. **Information systems security management** (fundamental concepts in information security management; classification of information from the perspective of IT security requirements; the organization's IT security policy; IT security risk management; optimization of IT security management processes – implementation of the ISO 27001 standard and technical norms provided in the NIS Directive) – theoretical-methodological elements and case studies.
6. **Information systems for competitive advantage** (the use of information systems to achieve competitive advantage; generic strategies enabled through information systems and technologies; theories used in information systems for competitive advantage; the

- strategic alignment model of information systems) – theoretical-methodological elements and case studies.
7. **Organizing and coordinating activities specific to the management of information systems** (structuring roles and responsibilities in the field of information systems management; organization models; specific processes of information systems management; business process modeling techniques; IT project management) – theoretical-methodological elements and case studies.
 8. **Performance management models for the business consulting industry** (the BSC model – Balanced Scorecard; the strategy map; systems based on OKR – Objectives and Key Results and KPI – Key Performance Indicators; integrating performance management models in software development projects) – theoretical-methodological elements and case studies.
 9. **Requirements for implementing information systems for managing business consulting projects** (requirements regarding: project management, portfolio management, modeling and simulation of business processes, implementation of IT&C systems for organization management, performance management, organization of IT&C activities within organizations) – theoretical-methodological elements and case studies.
 10. **IT solutions for the management of business consulting projects** (computerized management of consulting projects; IT solutions for the management of project portfolios; IT solutions for project management; planning and implementation of projects using the MS Project application; computerized evaluation of projects using KPI indicators) – theoretical-methodological elements and practical applications.
 11. **Process management in business consulting projects** (organizational structure and process modeling in business consulting projects; development of the process map according to PMBOK - Project Management Body of Knowledge; process classes and knowledge areas in consulting projects; organizational process portfolio) – theoretical-methodological elements and case studies.
 12. **Software solutions used for business process modeling** (process organization and business process modeling; BPMN modeling standard - Business Process Model and Notation; stages of organizational process modeling using BPMN; BPMN platforms; business process modeling using MS Visio and SAP Signavio – theoretical-methodological elements and practical applications.
 13. **Theoretical foundations of management** (approaches to the concept of management; management functions; organization and external environment; management processes and relationships; management schools; the relationship between management and leadership; the relationship between management and entrepreneurship; manager typology and management styles) – theoretical-methodological elements and case studies.
 14. **The organizational system** (structural organization: components and specific documents, organizational structure, types of organizational structures; process organization - components and specific documents; informal organization – components and specific documents; team management; the organizational system in the context of corporate governance principles) – theoretical-methodological elements and case studies.
 15. **The information system** (the concept of information system; components of the information system; general and specific deficiencies of information systems; IT systems; typology of the organization's IT systems) – theoretical-methodological elements and case studies.
 16. **The decision-making system** (management decision and its primary factors; typology of management decisions; decision-making methods under certainty conditions; decision-

making methods under uncertainty conditions; decision-making methods under risk conditions; IT solutions supporting decision-making) – theoretical-methodological elements and case studies.

17. **The system of management methods and techniques** (diagnostic analysis; project management; budget management; exception management; management by objectives; specific management methods) – theoretical-methodological elements and case studies.
18. **Human resource management** (definition and basic concepts; job analysis and design; recruitment and selection of human resources; personnel motivation: concepts and motivational theories; performance evaluation of human resources; human resource management in the context of labor legislation) – theoretical-methodological elements and case studies.
19. **Organizational culture** (the concept of organizational culture: definition and components; development of organizational culture; changing organizational culture; Geert Hofstede model) – theoretical-methodological elements and case studies.
20. **Strategic management of the organization** (strategic management and the organization's strategy; components of the organization's strategy; strategic options of the organization; competitive advantage) – theoretical-methodological elements and case studies.

Bibliography:

1. Deac, V., Bădițoiu, L., Cioc, M., et al. (2020). *Management (4th Edition)*. Bucharest: ASE Publishing House.
2. Burduș, E. & Popa, I. (2018). *Fundamentals of Organizational Management (3rd Edition)*. Bucharest: Pro Universitaria.
3. Burduș, E. & Popa, I. (2018). *Managerial Methodologies (2nd Edition)*. Bucharest: Pro Universitaria.
4. Ursăcescu, M. (2009). *The Information and Knowledge Economy*. Bucharest: University Publishing House.
5. Radu, I., Ursăcescu, M., Vlădeanu, D., et al. (2005). *Informatics and Management*. Bucharest: Editura Universitară.
6. Radu, I., Ursăcescu, M., Vlădeanu, D., et al. (2005). *Management simulations. Theory and Practice*. București: Editura Universitară.
7. Laudon, K.C. & Laudon, J.P. (2021). *Management Information systems : Managing the Digital Firm*. Harlow: Pearson.
8. Biswas, J. (2020). *Management Information Systems*. Los Angeles : Sage Publications.
9. Project Management Institute (2017). *Project Management Body of Knowledge (PMBOK Guide), 6th Edition*. Bucharest: PMI Romania Chapter.
10. Project Management Institute (2021). *Project Management Body of Knowledge (PMBOK Guide), 7th Edition*. Bucharest: PMI Romania Chapter.
11. *ISO/IEC 19510:2013 Standard regarding the definition of the Business Process Model and Notation (BPMN) 2.0 system*
12. *ISO/IEC 27001 Standard - Information technology, security techniques, information security management systems, requirements.*

13. Microsoft Corporation (2021). *Microsoft Project Professional 2021 Product Guide*.
14. Microsoft Corporation (2021). *Microsoft Visio Professional 2021 Product Guide*.
15. Microsoft Corporation (2024). *Power BI documentation*.
16. SAP SE (2024). *SAP Signavio Process Manager User Guide*.
17. *Law no. 362/2018 regarding the assurance of a high common level of security for networks and information systems (NIS Law)*.
18. *Order no. 1323/2020 for the approval of the Technical Norms concerning the minimum requirements for ensuring the security of networks and information systems applicable to essential service operators*.
19. *Law 31/1990, the updated Law on Commercial Companies*.
20. *Law no. 53/2003, the republished Labor Code*.