



SOFIA UNIVERSITY „ST. KLIMENT OHRIDSKI“

**FACULTY OF ECONOMICS AND BUSINESS ADMINISTRATION
DEPARTMENT „STATISTICS AND ECONOMETRICS“**

**STATE EXAM QUESTIONNAIRE
MASTER’S DEGREE PROGRAM
„MANAGEMENT INFORMATION SYSTEMS”
(4 semesters in English)**

**The questionnaire for the state examination is approved by Protocol No. 19/21.11.2023.
of the Faculty Council of the Faculty of Economics and Business Administration.**

1. Value creation and digital transformation strategies.
2. Enterprise architecture.
3. Business Information Systems – CRM, ERP, SCM, BI.
4. Management Information Systems integration.
5. Bulgarian payment systems. Development. Functions. Interaction. Payment types and operators. Legal framework.
6. Electronic financial markets. Advantages of investing in the electronic financial markets. Investment instruments. Markets and brokers. Information resources. Investment basics.
7. Retail electronic payment systems. Payment card systems. Electronic checks systems. Remote and Internet banking. Mobile payment systems. Electronic money systems. P2P electronic payment systems. Integrated solutions for electronic payments.
8. Business processes and their place in the organization.
9. Business process description and documentation.
10. Business process reengineering.
11. Organizational culture and change (G. Hofstede). Types, modalities, and areas. The example of "decentralization experts".
12. Individual change. Models for the study of individual change (behavioral, cognitive, psycho-dynamic, humanistic psychology). Personality types and organizational change.
13. Changes in the organization related to the introduction of new ICT (strategy, the role of ICT management, change in information culture).
14. Legal aspects of information and communication technologies.
15. Electronic statements, electronic documents, electronic signatures.
16. e-Governance.



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17. Mainstream Project Management bodies and frameworks.
18. Project Management: Scheduling and Budgeting.
19. Project Management: Quality management.
20. The short-run of a closed economy. The goods market. Equilibrium in the goods market and determination of output. Interaction among demand, production, and income. Gross Domestic Product (GDP). Consumption. Investment. Real vs Nominal GDP. The demand for goods. The determination of equilibrium output.
21. The open economy. Openness in the goods markets. Openness of the financial markets. Exchange rate regimes.
22. The supply and demand model. Elasticity and its applications.
23. Investment in common stocks. Determinants of investment returns.
24. The main goal of the companies – management and microeconomic approach. Stakeholders, shareholders, managers, regulators, stakeholder associations. Corporate governance and changing models. From maximizing shareholder value to maximizing stakeholder value. Corporate social responsibility.
25. Management - characteristics and definitions. Development of managerial thought. Approaches and schools in management theory: From Taylor, Weber and Fayol to Drucker and Kotler.
26. General Principles of Accounting. Ethics.
27. Financial Statements: Meaning, objectives, and importance.
28. Role, functions, and tasks of the financial manager; Objectives of corporate governance; Model for finding the present value of cash flows; The Net Present Value (NPV) method; Estimation of the present value (PV) of tangible fixed assets; Estimation of the present value (PV) of life annuities and annuities.
29. Long-term financing of the company: Financing with bonds; Financing with preferred shares; Financing with ordinary shares; Public and private issues of securities.

Reference

- Bland, D. J., & Osterwalder, A. (2019). Testing business ideas: A field guide for rapid experimentation (Vol. 3). John Wiley & Sons.
- Bolstorff, P. (2005). How to Make Your Supply Chain More Valuable. Logistics Today. Vol. 46. No. 6. Jun 2005. pp. 19-21.
- Bolstorff, P., Robert Rosenbaum, (2003). Supply Chain Excellence: A Handbook for Dramatic Improvement Using the SCOR Model. AMACOM Div American Mgmt Assn. ISBN 0-8144-0730-7.
- Bosworth, S., Michel Kabay, Eric Whyne (Editors), Computer Security Handbook, John Wiley & Sons, 2014, ISBN 978-1-118-12706-3



SOFIA UNIVERSITY „ST. KLIMENT OHRIDSKI“

- Boyes, W., and Michael Melvin, “Macroeconomics”, 2nd ed., Houghton Mifflin Company, Boston, 1994
- Bradford, M., Modern ERP: Select, Implement, and Use Today's Advanced Business Systems, 2020, ISBN: 978-0578697987
- Brealey R., St. Meyers – “Principles of Corporate finance” Mc Graw-Hill – 1991M.
- Burda, M., Wiplosz Ch., Macroeconomics: A European Textbook, Oxford University Press, 6-th edition, 2013
- Burgelman, R. A., Christensen, C. M., & Wheelwright, S. C. (2009). Strategic management of technology and innovation, McGraw-Hill Irwin.
- Burke, W.W. 2011. Organization Change: Theory and Practice (3d Ed). SAGE publications Ltd. Business Requirements Analysis. MindTools. Web. http://www.mindtools.com/pages/article/newPPM_77.htm>
- Cameron, E., and Mike Green. 2004. Making Sense of Change management (A Complete Guide to the Models, Tools, and Techniques of Organizational Change). Kogan Page
- Canavan, J., Fundamentals of Network Security, Artech House, ISBN 1-58053-176-8
- Champy, J., & Cohen, L. (1995). Reengineering management. Dunod.
- Chopra, S., and Peter Meindel. (2002). Supply Chain Management: Strategy, Planning, and Operation. Prentice Hall of India.
- Deming, W. E. (2000) - Out of the Crisis
- Dimitrov, G., International Encyclopedia of Laws for Cyber Law, Up-to-date as of September 2013 (2017, Bulgaria, IEL Cyber Law), Kluwer Law International BV, Netherlands, ISBN: 9789041121882
- Drucker, P. (2006) Practice of Management
- Dyché, J., The CRM Handbook: A Business Guide to Customer Relationship Management, Addison-Wesley Professional, 2001.
- Ford, W., M. S. Baum, Secure Electronic Commerce, Prentice-Hall
- Frank, R., and Ben Bernanke, “Principles of Macroeconomics”, 3rd ed., McGraw Hill Higher Education, 2006
- Franklin, M., et al., 2019, Principles of Accounting, Volume 1: Financial Accounting, Attribution-NonCommercial-Sharealike 4.0 International License (CC BY-NC-SA)
- Furnell, St., Sokratis Katsikas, Javier Lopez, Ahmed Patel (Editors), Securing Information and Communications Systems, Artech house, 2008, ISBN 978-1-59693-228-9
- Greenberg, P., CRM at the Speed of Light, McGraw-Hall, any edition
- Grossmann, W., Fundamentals of Business Intelligence, 2015, ISBN: 3662465302.
- Harvey, R., Public Finance, 4 ed., 1995Hassler, V., Security Fundamentals for E-Commerce, Artech House, 2001, ISBN 1-58053-108-3
- Heesen, B., Effective Strategy Execution: Improving Performance with Business Intelligence, Second Ed., Springer-Verlag Berlin Heidelberg, 2016, ISBN 978-3-662-47922-3
- International Institute of Business analysis - Business Analysis Body of Knowledge, v3.0
- [Business Process Transformation Software | ARIS | Software AG](#)
- Jama Requirements Management 101:
<http://www.jamasoftware.com/news-resources/whitepapers.php>



SOFIA UNIVERSITY „ST. KLIMENT OHRIDSKI“

- Jelassi, T., Albrecht Enders, STRATEGIES for e-BUSINESS: Creating Value through Electronic and Mobile Commerce, Pearson Education Ltd, 2004
- International Financial Reporting Standards
- IPMA Competence Baseline (ICB), Version 3.0, June 2006
- Kalakota , R., E- Business: Roadmap for success , Addison Wesley Longman , Inc. , 2000.
- Kaplan, D. and Norton, R. (2001) The Strategy-focused Organisation, Harvard Business School Press, Boston, MA.
- Kim, WC, & Mauborgne, R. (2014). Blue ocean strategy expanded edition: How to create uncontested market space and make the competition irrelevant. Harvard business review Press.
- Kimmel, P., Weygandt, J., Kieso, D., 2018, Financial Accounting: Tools for Business Decision Making, 9th Edition, ISBN: 978-1-119-49356-3
- Kincaid, J.W., Customer Relationship Management, 2002
- Konheim, A., Computer Security and Cryptography, John Wiley & Sons, ISBN 0-471-94783-7
- Kumar, V., Werner Reinartz (2018). Customer Relationship Management: Concept, Strategy, and Tools (3rd ed. or newer) ISSN 2192-4333
- Lachev, T., Applied Microsoft Power BI (4th Edition): Bring your data to life; ISBN: 0976635399, 2019
- Laudon, K., Jane P. Laudon, Management Information Systems: Managing the Digital Firm (15 or 16 edition), Pearson; 16 edition (March 23, 2019)
- Levine, R., Christopher Locke, Doc Searls, David Weinberger, McKee Jake, the Cluetrain Manifest: <http://www.cluetrain.com/>
- Magal, S., Jeffrey Word, Integrated Business Processes with ERP Systems, Wiley, 2011, ISBN: 9780470478448
- Mankiw, N. Gregory, “Principles of Macroeconomics”, International ed., South-Western College, 2009
- Mas-Colell, A. Michael D, Whinston and Jerry R. Green, Microeconomic Theory, 1995, Oxford University Press. <http://bookos.org/g/Andreu%20Mas-Colell>
- Mc Connel, CR, Brue SL, Microeconomics, 14 th, ed. 1999
- Mastering the Requirements Process (Second edition), Suzanne Robertson and James Robertson, Pearson Education, 2006
- Microsoft, Microsoft Solution Framework, Practitioner White Paper, March 2003
- Mintzberg, H., Ahlstrand, B. et Lampel, J. (2009) Strategic Safari: A Guided Tour Through the Wilds of Strategic Management. 2nd Edn. New York: The Free Press. 1st Ed.1999.
- Minzberg, H. (1993) Structure in Five: Designing Effective Organizations. Prentice-Hall, Inc.
- Montague, D., Essentials of Online Payment Security and Fraud Prevention, John Wiley & Sons, 2011
- Musgrave R, Public Finance in Theory and Practice, 5 ed, McCraw Hill, 1989
- My SAP ERP – Book ISBN 3 89842 734, Galileo Press, Bonn 2006-2016. SAP Research Report – from creativity to value 2009-2010 – Book and DVD
- Neck, H. M., Neck, C. P., & Murray, E. L. (2019). *Entrepreneurship: the practice and mindset*. SAGE Publications, Incorporated.
- Nicolson W, Intermediate microeconomics, 5 ed, The Dryden press, 1990.



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- O'Mahony, D., Michael Peirce, Hitesh Tewari, Electronic payment systems for e-commerce, Artech house, 2001
- Osterwalder, A., & Pigneur, Y. (2010). Business model generation: a handbook for visionaries, game changers, and challengers. John Wiley & Sons.
- Osterwalder, A., Yves Pigneur, Gregory Bernarda, and Alan Smith. Value proposition design: How to create products and services customers want. John Wiley & Sons, 2014.
- Peltier, Th. et al, Information Security Fundamentals, Auerbach Publications, ISBN 0-8493-1957-9.
- PMBoK, any edition after 1996
- Probst, G. J.-B., Leibold, M., et Gibbert, M. (2005) Strategic Management in the Knowledge Economy: New Approaches and Business Applications. Wiley-VCH.
- Rambure, D., Alec Nacamuli, Payment Systems. From the Salt Mines to the Board Room, Palgrave Macmillan, 2008
- Reeves, L., Manager's Guide to Data Warehousing, Wiley Publishing, Inc., 2009, ISBN: 978-0-470-17638-2
- Reynolds, J., Practical Guide to CRM, June 15, 2002
- Ross, S., Randolph Westerfield, Bradford Jordan “Fundamentals of Corporate Finance”, McGraw-Hill, 2002
- Scheer, A-W., 2000, ARIS – Business Process Modeling, Springer
- Senge, PM, Roberts, C., Ross RB, Smith, BJ and Kleiner, A. (1994). The Fifth Discipline: Fieldbook. London: Nicholas Brealey
- Sheppard, D., Payment Systems, Handbooks in Central Banking, Centre for Central Banking Studies, Bank of England
- Sherif, A., Practical Business Intelligence, 5 Jan. 2017, ISBN: 178588543X.
- Schilling, M. (2010). Strategic Management of Technological Innovation. McGraw-Hill Irwin, 3ed.
- Simchi-Levi, D., P. Kaminski, E. Simchi-Levi (2008). Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies. McGraw-Hill International. ISBN 978-0-07-127097-7.
- Stephen, P., Robbins, C., Mary, A., & de Cenzo, D. (2019). Fundamentals of Management. Pearson.
- Ten Step, <http://www.tenstep.com/>
- Tidd, J., & Bessant, J. (2009). Managing Innovation. John Wiley & Sons Ltd.
- Varian H, Microeconomic Analysis, New York. WW Norton & Company, 1992.
[http://milsight.com/armenia/Varian-MicroeconomicAnalysis, pdf](http://milsight.com/armenia/Varian-MicroeconomicAnalysis.pdf)
- Venkatraman, N. et Subramaniam, M. (2002) ‘Theorizing the Future of Strategy: Questions for Shaping Strategy Research in the Knowledge Economy’. Dans: Handbook of Strategy and Management. SAGE Publications Inc.
- Vom Brocke, J., J. Mendling (2018). Business Process Management Cases, Digital Innovation and Business Transformation in Practice, Springer International Publishing.
- Wren, DA, & Bedeian, AG (1994). The evolution of management thought.