Field of study: Economics and IT Aplications 1st level studies

Questions for the field of study

- 1. Describe types of econometric models and deliver an example of the model that could be used for analysing a chosen economic phenomenon
- 2. Define annuity and continuous payments Give formula and the relationship between them
- 3. Provide classification and general interpretation of basic summary statistics
- 4. Describe stages of statistical hypotheses verification process
- 5. Explain the approaches to valuation What are the philosophical bases and information needed to use each of them in investment decisions?
- 6. Clarify the term: multimedia
- 7. List and explain the basic constructs of structured programming
- 8. E-commerce what is it and how is it better than traditional commerce?
- 9. Components of financial statements and the scope of information that are presented in them
- 10. Provide a description of the core functions of an accounting module
- 11. What is Geographic Information Systems
- 12. What are the benefits of using statistical packages?
- 13. Capabilities and limitations of computer simulation method in the analysis of the business
- 14. Describe three main components of Decision Support Systems
- 15. Does the capital structure affect the company's value and the cost of capital under the Modigliani-Miller theory?
- 16. Name at least three different types of information system used in organizations and describe one of them
- 17. Interpret the role of SQL in database development
- 18. Describe the role and influence of information systems on enterprise functionality
- 19. List and briefly describe major components of a typical database environment
- 20. Characterise System Dynamics as a technique of continuous simulation
- 21. What is information security and why is it important?
- 22. How would you value the cost of capital? What are the methods recommended in the finance literature?
- 23. Explain the meaning of statistical estimation in economics
- 24. Describe the role and influence of information systems on enterprise functionality
- 25. Based on WACC (weighed average cost of capital), ROIC (return on invested capital) and EVA (economic value added) when do we know that the company creates value?
- 26. Describe steps of the extended Simon's decision making model
- 27. The main objective, functions and instruments of the Central Bank
- 28. What phases of the business cycle do you know? List them and describe their characteristics
- 29. Describe sources of public revenues and their costs (collection, compliance, demoralisation, excess burden)
- 30. The essence of the company's financial liquidity. Indicators of its evaluation

Module course: Market research methods

- 1. Describe types of formations technical analysis
- 2. Name and describe criteria for evaluating quality of secondary data in marketing research
- 3. Sources and methods of financing innovative projects

- 4. Describe criteria for success of innovative projects funded by private sector
- 5. Characterize quantitative and qualitative methods of supporting investment decisions

Module course: IT engineering in business

- 1. What UML diagrams are used in the IS analysis phase? Name at least four and describe the role and the basic concepts of one of them
- 2. Discuss the 7 layers of the Open Systems Interconnection (OSI) reference model
- 3. Describe concepts of usability and user experience design in the context of mobile applications
- 4. Name and describe four concepts associated with object-oriented analysis and design
- 5. Describe techniques used in process of designing mobile applications providing great user experience

Module course: Real estate markets

- 1. Describe features of the real estate market
- 2. What (and why) is the highest form of real property ownership?
- 3. Describe and compare methods of creating real estate management plans
- 4. What is a Real Estate Appraisal?
- **5.** Describe the tools supporting the work of a real estate agent

Module course: IT in business

- 1. What is the business process model and how it can be used for e-Business?
- 2. Concisely describe essence and importance of IT tools in marketing
- 3. What is a responsive web design, and what are its advantages?
- 4. Name the most important steps that you need to take to start selling online
- 5. What are the most effective digital marketing communication channels?