Management (for students starting in 2024 or later)

- 1. The essence of mathematical statistics, the errors of sampling and inference, the steps of statistical processing
 - Interpretation of descriptive statistical indicators, properties of statistical indicators, main representation methods
 - Estimation theory, properties of estimation, interval estimation
 - The general course of hypothesis tests, statistical tests and their hypotheses, conditions for their application
 - Basics of correlation and regression calculations, basic assumptions of the model, interpretation and testing of indicators and regression coefficients
- 2. Management theories and methods, their application and criticism
 - What managerial skills and good and bad examples of their application do you know?
 - Describe the organizational culture types according to Handy and Quinn. How do organizational structures and culture types fit together?
 - Present the learned motivational theories and introduce application examples (theories of Maslow, Herzberg, McClelland, Vroom, Adams, Locke, and Skinner)
 - Describe the learned leadership styles and give examples of when it is recommended to use a given leadership style (theories of Lewin, Tannenbaum-Schmidt, Ohio State University, Blake-Mouton, and Hersey-Blanchard)
- 3. Segmentation, targeting and positioning and STP strategy
 - Describe the process and main characteristics of segmentation and list the segmentation criteria.
 - Describe the STP strategy, its process and present the dimensions of positioning in detail through examples
 - Using examples, explain the five positioning strategies.
 - Define the perceptual map and explain its application using an example of your choice
- 4. Ensuring quality in organizational operations
 - The main features of the current ISO 9000 family of standards
 - Characteristics of Six Sigma and Lean Six Sigma approaches
 - Organizational self-evaluation
- 5. Process management
 - Methods and tools for recording and monitoring processes (advantages, disadvantages)
 - Failure analysis methods (advantages, disadvantages)
 - Process improvement models: similarities, differences, criticisms
- 6. Management of customer demand and their satisfaction
 - Methods of forecasting customer demand and their application issues
 - Evaluation of demand forecast errors and their consequences for operation
 - Examination of the capacity to satisfy customer needs and its modification possibilities
- 7. Inventory and supply management
 - Types of inventory problems and the costs of the processes associated with them
 - Management dilemmas and models of inventory control
 - Tasks and solutions of material requirements planning

Financial management

- 1. Money
 - The functions of money
 - The quantity theory of money
 - Factors affecting the demand for money.
 - The concept of exogenous and endogenous money supply
- 2. Monetary policy
 - The goals and objectives of monetary policy exchange rate stability, price stability, economic growth and bank sector liquidity
 - The traditional (conventional) monetary policy instruments
 - The non-traditional (unconventional) monetary policy instruments
- 3. Public finances
 - The main revenues and expenditures of the general government (economic, functional and accounting classifications)
 - The notion, origin and consequences of budget deficit and public debt
 - The Stability and Growth Pact, the excessive deficit procedure and other fiscal rules
- 4. Bretton Woods, crises
 - What were the main characteristics of the international monetary system of Bretton Woods?
 - What made it reasonable to give up the gold-exchange system?
 - What were the major economic policy consequences of the oil crises of the 1970s?
 - What were the main causes and consequences of the 2007-2009 global financial crisis?
- 5. Financial markets, stock exchanges, securities, orders
 - The financial intermediary system (and its functions), main channels, markets
 - Characterization of securities markets, stock exchanges, IPO
 - Securities, share types, stock market indices
 - Main order types, basic stock market concepts (e.g. short, margin, stop-loss, market capitalization, etc.)
 - Stock market frauds and scams.
- 6. CAPM and other factor models
 - Risk and return (definition, calculations, etc.)
 - Efficient Market Hypothesis (origins, strength, etc.)
 - Markowitz model, CAPM assumptions, beta, CAPM-model
 - Other factor models, French-Fama 3 and 5 factors, etc.
- 7. Fundamental analysis
 - Macroeconomic and industry analysis (macro, business cycles, sector rotation, etc.)
 - Equity Valuation Models (Comparables, P/E problems, CAPE, DDM, Gordon, Reinvestment, PVGO, Free Cash Flow Valuation Approaches)
 - Financial Statement Analysis (Key financial Ratios, EVA, Ratio analysis, DuPont system, etc.)
- 8. Portfolio management and performance evaluation
 - The Margin of Safety, Kelly Criterion, Stop-loss rules, tools of stock selection
 - The principal strategies
 - Portfolio management as an activity (players, processes, indices-benchmarks, active vs. passive management, etc.)
 - Performance evaluation (goals, content, process, attribution, etc.)

| Jensen, Information ratio, etc.) | | | | | |
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