Vezetés és szervezés mesterszak záróvizsga tételek

- 1. The concept and functions of management
 - What is the definition of management and what do the functions mean? What is the definition of a manager and what levels of management can we identify by classification?
 - Describe Mintzberg's classification of managerial roles: define categories and list the roles.
 - What are the three types of skills that managers need and what do they mean?
- 2. Structural characteristics of organizations and main organizational structures
 - Explain the six elements of organizational design.
 - Define Simple, Functional, and Divisional structures, highlighting their strengths and weaknesses
 - Describe why the Team and Matrix structure are specific.

3. Defining marketing

- What are the value and scope of marketing?
- Introduce the new marketing realities: the three forces and the new consumer and company capabilities through practical examples.
- What are the holistic marketing dimensions?
- 4. Market segmentation, targeting, and positioning
 - Introduce the ways a company can divide the consumer and the business market into segments
 - List the requirements for effective segmentation. Introduce the different levels of segmentation (target market strategies) and give example for at least two different levels
 - Explain the competitive frame of reference and perceptual map for positioning, and point out their application
- 5. Formalized Quality Management Systems
 - General features and main principles of ISO 9001.
 - Sector-specific quality management systems in production.
 - Sector-specific quality management systems in services.

6. Current Quality Management Trends

- The relationship between Six Sigma, Lean Management and TQM.
- Self-assessment and its role in the improvement of the organizational operation.
- The main criteria of the EFQM model.

7. Process management in practice

- Basics of process management, process improvement models.
- Possibilities to identify and describe processes.
- Methods assuring the optimal, error-free implementation of processes.

8. Quality management methods and tools

- Classification of quality management tools.
- Quality management tools for data collection and analysis related to processes.
- Quality management tools focusing on failure analysis.

9. Fundamentals of project management

- Concepts (definition of project & programme, phases, international organizations and certifications, life cycle analysis)
- Interpretations of project success
- Project portfolio management

10. Visualization and analysis of project plans

- Traditional techniques (Gantt-diagram, Elemental Trend Analysis)
- CPM, MPM
- PERT, GERT

11. Project planning

- Develop schedule
- Graph theory algorithms for management
- Schedule compression (crashing algorithm, fast tracking)

12. Tools and techniques for realization

- Project risk management process
- Performance measurement with the Earned Value Management (EVM)
- Performance measurement with ES technique

13. Describe the most important forecasting methods and their practical applications.

- Classification of forecasting methods. Basic components of the demand pattern.
- Projective forecasting methods methods used for forecasting constant demand, and demand with trend and seasonality.
- Evaluation of the forecasting error. Monitoring the forecasting model (tracking signal).
- 14. Describe what you learned about capacity planning and analysis.

- Capacity definitions, most important capacity indices and their application.
- Short-term capacity planning difference between demand and capacity management, classical methods.
- Application of the learning curves in capacity analysis theory, conclusions.
- 15. Describe the calculation of the economic order quantity in inventory management and the difficulties of the practical application.
 - Operation of classic inventory control mechanisms application, similarities, differences.
 - Deterministic (EOQ, EPQ) and stochastic models (safety stock) in inventory management the principles of the models, managerial decisions and challenges.
 - Discounts depending on the quantity ordered.
- 16. How can aggregate production planning be done with linear programming, and what are the most important outcomes for management?
 - The basics of aggregation levels, reasons, necessary information set, challenges
 - Management decisions based on the results of linear production planning models. Finding and evaluating the optimal solution.
 - Sensitivity analysis of objective function coefficients and right-hand side parameters.