



---

**Major:** *Bachelor of Science in Engineering Management (BSc)*  
**Topic list:** *Complex economic*

---

1. The concept and functions of management: Explain the concept and key issues of management! Present the main fields of expertise and the four main functions of management!
2. Management trends: Describe the main phases of management science! Present the key issues in the work of Taylor, Fayol and Ford, among the main figures of the classical trend, and explain what impact they have on management in the 21st century?
3. Planning: What do changing environment, organizational philosophy, vision and mission mean for companies, and what time frame do they cover? Describe the steps and tools of planning! Describe the methods for analyzing the environment and internal resources!
4. Organizations, organizational forms: What is the difference between a work organization and an ownership organization? Describe the main organizational types based on the structural characteristics that determine the operation of organizations (division of labor, division of authority, coordination).
5. Leadership styles: How do you define leadership style? What does it depend on and what influences a leader's style? What are the differences between leadership and management roles? Which leadership style is appropriate in which situation?
6. Motivation Theories: How can leaders/managers motivate employees? Describe at least three motivation theories!
7. Explain the role of managerial decision-making and decision-making as a managerial task. Describe decision-making models and identify factors that hinder decision-making.
8. The concept and role of human resource management: Explain the concept and purpose of human resource management (HRM)! Describe the main functions of HRM! Describe the strategic role of HR in the operation of organizations, as well as the relationship between HR and corporate strategy!
9. Workforce planning and recruitment: Explain the concept and importance of workforce planning! Describe the main forms and channels of recruitment! Explain the advantages and disadvantages of internal and external recruitment!

10. Selection process and methods: Explain the concept and purpose of selection! Describe the main steps of the selection process! Describe the most commonly used selection methods!
11. Concept of leadership and leadership roles: Explain the concept of leadership! Describe the main types of leadership roles! Explain how leadership style affects organizational performance!
12. Organizational culture: Explain the concept of organizational culture! Present the main elements of organizational culture! Describe the role of leadership in shaping and operating organizational culture!
13. Explain the concept and purpose of performance management. Describe the role of performance evaluation systems in the operation of organizations. Describe the most common methods of performance evaluation.
14. The controlling approach and the role of the controlling system in corporate management. The concept and approach of controlling. The tasks and main areas of controlling. The benefits of controlling in corporate operations.
15. Controlling information system and management information management. Structure of controlling information systems. Role of planning and reporting systems. The role of indicators in controlling. Controlling as an information management system.
16. The role of cost accounting in controlling. The concept of cost and the difference between cost and expenditure. Classification of costs. The goals of modern cost and performance accounting. The role of management accounting. Cost accounting systems.
17. Calculation methods and margin calculation in management decisions. The concept and types of calculation (pre-, intermediate-, post-calculation). Calculation methods: divisor calculation, equivalent number calculation, replacement calculation, normative calculation, ABC calculation. The structure and application of the RCPA. Break-even analysis and the role of the break-even point.
18. Strategic and operational controlling. The concept and stages of strategic planning. The concept, tasks, and tools of strategic controlling. The concept, role, and tasks of operational controlling. Comparison of strategic and operational controlling. The role of controlling in improving competitiveness.
19. Investment and investment decisions in a controlling perspective. The role of economic calculations in controlling. Static investment evaluation methods. Dynamic investment evaluation methods. Net present value (NPV) concept. The role of cash flow in investment decisions.
20. The concept, role, and four dimensions of the Balanced Scorecard (including definitions of these dimensions), its operation, and the process of its implementation. Provide examples of applicable metrics for each dimension and explain how the system works and explain the relationships between the metrics.