

Questions for the state final exam

**Bachelor study programme N0715A270012 – Engineering,
Specialization S03 – Industrial Engineering
academic year 2023/2024**

LOGISTICS, ORGANIZATION AND PRODUCTION MANAGEMENT

1. History of operations management – since history until now and future trends.
2. The definition of the concept of production and production management, production management goals, production management hierarchy, the position of production in the company management system.
3. Information systems in logistics, identification systems.
4. The organizational structures – pros, cons, implementation.
5. Organization, process organization according volume and variety, main factors.
6. Production planning. Creation of production program. Scheduling methods (Gawett, Sokolicynov and Johnson's method).
7. Project planning and control – basic principles, aims, the organizational structures of projects, project manager, time-oriented techniques.
8. Quality management, quality tools.
9. Logistics – definition, goals, strategies, basic concepts.
10. Purchasing logistics, functions, purchasing situation and process, determination of purchasing strategy.
11. Classification of stocks and their characteristics, stock chart. Differentiated inventory management system. Ordering systems.

12. Methods and techniques of logistics inventory control – Pareto analysis, analysis ABC.
13. Distribution logistics. Structure and types of distribution chain. Features and functions of the distribution chain.
14. Supplier selection, selection criteria, approaches and methods of supplier selection.
15. Packaging – basic role of packaging, functions of packaging, types of packaging.
16. Handling systems – functions, types of technical handling systems.
17. Labour consumption standards, their classification and short characteristics.
18. Analytical methods of measuring of work consumption.
19. Logistics process optimization in practice, KAIZEN, JIT, KANBAN methods.
20. Costs of company activities, their classification, their examples.