Topics for diploma examination for degree of Master

Engineering Management, second cycle studies, specialization: Managing Enterprise of the Future

Topics in the field of study:

- 1. Market mechanism its' elements and role in the economy.
- 2. Basic models of the market (Perfect competition, monopolistic competition, oligopoly, monopoly).
- 3. The role of the state in the economy.
- 4. The functions of the state budget, the budget deficit.
- 5. Inflation: causes and methods of fighting, effects of inflation.
- 6. The essence of the globalization.
- 7. Macroeconomic measures of the economy (GDP, GNP, gross national income, Consumer Price Index, unemployment rate).
- 8. Growth factors and of the economic development and the barrier of the economic development.
- 9. Economic cycle (kinds of cycles, elements and the course of the classical business cycle).
- 10. The role of money in the economy.
- 11. The legal system, sources of the law, sectors of the law.
- 12. Legal and organizational forms of business entity.
- 13. Taxes in business.
- 14. The term and functions of the management.
- 15. The organizational structure the essence, the classification and conditioning.
- 16. Levels of management in the organization.
- 17. Methods and techniques of the organization and management.
- 18. Styles of management.
- 19. Theories of motivation in management.
- 20. Strategic management (strategies, methods of the strategic analysis).
- 21. Contemporary concepts of management. Lean, agile and virtual enterprise
- 22. The specificity and the organization of the marketing management.
- 23. Marketing mix.
- 24. Human resource management in the organization (theories, models and elements of the system).
- 25. Financial reports and their analysis.
- 26. Operational research and statistical methods in management.
- 27. Methods of economic analysis of investment projects.
- 28. Financial analysis.
- 29. The notion, the essence and instruments of the financial market and capital.
- 30. Internal and external source of capital (finances) of enterprises.

Managing Enterprise of the Future:

- 1. Business planning. Structure of the annual planning. Functions and the structure of the business plan.
- 2. The methodology of designing a company management system (structures, processes, and information systems).
- 3. Technology of Enterprise 4.0 (production and information systems).
- 4. Supportive processes management in Enterprise 4.0
- 5. Typical organizational structures of international and global corporations.
- 6. EU legal system and EU support systems.
- 7. Aims and methods of the promotion and the system of distribution, and types of behavior of clients in the process of the purchase.
- 8. SME the criteria of distinguishing and the specificity of SME, characteristic problems of management in SME. SME's sources of financing.
- 9. Network and virtual structures. A lean, agile and virtual enterprise.
- 10. Human capital management in Enterprise 4.0.
- 11. Enterprise competitiveness.