

Code: 34 „PRODUCTION MANAGEMENT”

ECTS credits: 7	Number of hours per week:
Forms of assessments: Exam	30+0+15+15
	Types of assessment: Exam - written
Department, providing instruction on the discipline: Department: <i>INDUSTRIAL MANAGEMENT</i> <i>FACULTY OF MECHANICAL ENGINEERING AND TECHNOLOGIES</i>	

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Annotation: The educational objectives of the course aim at forming students' theoretical knowledge in the area of production management, as well as at laying the foundations of their practical skills in managing the production processes in enterprises dealing with material production.

The theoretic and methodological problems of research in maintaining the optimal proportions between the structural elements of the production process are examined, as well as among them and the available resources of the enterprise. Attention is paid to the type and forms of organization of production, the stages, functions and types of production management. Significant place is given to the issue of creating a successfully functioning forecasting system for PM purposes. Emphasis is also placed on capacity planning, annual production programming, calendar and operational production planning.

The study of the topic provides a foundation on which students build knowledge about the realization of production process of a given order within certain terms and quantities, but determining this realization in space and time, starting from the general things to the specific ones.

Main issues of the syllabus content:

- Concept of Production
- Nature of Production Management
- Competitiveness, Strategy, and Productivity
- Forecasting
- Approaches to Forecasting
- Strategic Capacity Planning for Products
- Strategy Formulation
- Aggregate Planning and Master Scheduling
- MRP and ERP

Content presentation: The content is presented through lectures and exercises. During the lectures students are introduced to basic notions and theoretical concepts. During the laboratory exercises discussions are planned, practical completion of the lecture course topics and solving of practical case studies.