

Code: 29 „INDUSTRIAL ENGINEERING”

ECTScredits: 6	Number of hours per week:
Forms of assessments:Exam	30+0+30+0
	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: This subject discusses the main, general and theoretical issues related to engineering processes. The aim is to acquaint students with the characteristic theoretical and methodological problems of the research in the area of engineering of production systems, design of industrial enterprises, organization of auxiliary and servicing processes in one industrial enterprise, management of engineering projects. The possibilities of applying the system approach in production systems design are analyzed, as well as the choice of preferred option in the course of the given engineering process. This provides a foundation on which students can build on their knowledge in organization and management of production in one business unit.

Main issues of the syllabus content:

- Object and Subject of Industrial Engineering and Management
- Engineering of Production Systems
- Plant Location and Layout
- Location Theories
- Strategic Decisions for Location of the Enterprise
- Production System
- Organization of The Production Process in Time
- Design of industrial enterprises
- Organization and General Methodology of Industrial Enterprise Design
- Content and General Methods of Technological Design
- Design of Separate Enterprise Production Units (Workshops)
- Pre-determining the Production Type and the Basis for Spatial Construction of the Production Units
- Design of the Separate Enterprise Production Units

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.