Title	Code
(Logistyka produkcji i zaopatrzenia)	**1011104251011110338**
Field **Logistics - Part-time studies - First-cycle studies**	Year / Semester **3 / 5**
Specialty **-**	Course **core**
Hours Lectures: **1** Classes: **-** Laboratory: **-** Projects / seminars: **15**	Number of credits **4**
	Language **polish**

Lecturer:

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Status of the course in the study program:

- obligatory subject

Assumptions and objectives of the course:

- Effects of the course - skills and competencies: Knowledge of understanding of the nature of production and supply of logistics and its place in the management production company. Ability to use quantitative methods in the management of production of material resources, the ability to setup optimization - selection methods at the level of finished goods and components. Ability to manage the flow of system construction material streams at the level of logistical planning and internal flow control

Contents of the course (course description):

- Lectures: The importance of logistics, manufacturing and supply logistics system of the company. Basic functions of procurement processes. Material Requirements Planning (MRP). The choice of sources of purchase, background for the decision related to "buy or make". The costs of supply. Internet and ecommerce in the logistics of supply - the use of modern shopping platforms.

Processes of material flow in production processes. Planning and controlling production processes. The role of the sales plan and production schedule in material logistics subsystem. Selection of methods for determining the size of the lot. Conditions of use, dependence, recommendations. Logistical decoupling point and material requirements planning system.

Flow control, demand-controlled centralized system, decentralized system of controlled consumption, location of buffers in the system of logistics enterprises.

Project:

Construction of the sales plan and production plans, integrated plan (S&OP). Material requirements planning system in terms of demand-dependent (MRP). Construction of the broadcasting system indices for product items. Using methods: constant batch size (SWP), the economic size of the lot, the lot for a game, a fixed number of compartments needs constant calculation cycle ordering, ordering model level, the lowest unit cost, lowest total cost. Structure and configuration management system for the planning of material flow streams. Organization and flow control on the shop floor level in the warehouse supply system - the job - the magazine of inter-department

Laboratory: Application of IT tools in the management of material supply.

Introductory courses and the required pre-knowledge:

- Basic knowledge of production and logistics management

Courses form and teaching methods:

- lecture, project, IT laboratory

Form and terms of complete the course - requirements and assessment methods:

- lecture on the basis of colloquium, credit classes on the basis of project design, based on IT lab credit report

Basic Bibliography:

Additional Bibliography: