



Course title: Production Logistics

ECTS credit allocation (and other scores): 3,5

Semester: autumn

Level of study: ISCED-7 - second-cycle programmes (EQF-7)

Branch of science: Social sciences

Language: English

Number of hours per semester: Classes: 30, Lecture: 15

Course coordinator/ Department and e-mail: Katarzyna Łukiewska, Department of Competitiveness of Economics, katarzyna.lukiewska@uwm.edu.pl

Type of classes: classes and lectures

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#### Substantive content

**CLASSES:** Measures of efficiency of the production system. Planning of new products: concept of innovation, types of innovation, methods of evaluation of new products. Evaluation of the use of machinery and equipment based on the Overall Equipment Effectiveness index. Use of ABC method in planning and control of material stocks: Pareto rule vs. ABC method, examples of division of materials into groups A, B, C. Material demand planning: MRP procedure - essence and scope, procedure, advantages and disadvantages. Special cases of inventory control. The basic economic order quantity model.

**LECTURES:** Production system in an enterprise. The essence of production logistics and its place in the logistics system of enterprises. Aims and tasks of production logistics. Basic measures of production and logistic activity. The manufacturing process. Principles of rational organization of manufacturing process. Characteristics of types and forms of production and directions of their improvement Selected methods and management systems improving production logistics, including total productive maintenance.

**Learning purpose:** Gain basic knowledge and skills in production logistics.

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On completion of the study programme the graduate will gain:

**Knowledge:** about production system, tasks of production logistics, types and forms of production

**Skills:** analyse and evaluate the elements of a production logistics system

**Social Competencies:** solve tasks in the field of production logistics together with other team members

**Basic literature:** 1) Ronald H. Ballou, 2003. Business Logistics Management, Prentice-Hall International, t3; 2) Douglas M. Lambert, James R. Stock, 2000. Strategic Logistics Management, McGrawHill.

**Supplementary literature:** 1) Joseph S. Martinich, 2008. Production and Operations Management, John&Sons

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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 49 h (participation in classes: 30 h, participation in lectures: 15 h consultation: 4 h)

Student's independent work: 45,5 h