COURSE DESCRIPTION CARD - SYLLABUS

Course name
Production and service management

Course

Field of study
Logistics
Area of study (specialization)

Level of study
First-cycle studies
Form of study
part-time

Year/Semester
3/6
Profile of study
general academic
Course offered in
polish
Requirements
compulsory

Number of hours

Lecture
14
Tutorials

Laboratory classes
12
Projects/seminars
16

Other (e.g. online)

Number of credit points

6

Lecturers

Responsible for the course/lecturer:
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Responsible for the course/lecturer:

Prerequisites

The student starting this subject should have a basic knowledge of machine technology as well as the basics of management and logistics. He should also have the skills to understand and apply the parametric description of the production process and system as well as the design of workstation organization, as well as understand and be prepared for production management, especially in the area of production organization design, and in the field of social competence should have the ability to work in a group.

Course objective

To familiarize students with the basics of production and service management.

Course-related learning outcomes

Knowledge

knows the basic management issues specific to logistics and production management [P6S_WG_08]
knows the basic relations between the technical and economic sphere characteristic of logistics and production management [P6S_WK_01]
knows the general principles of creating and developing forms of individual entrepreneurship characteristic of logistics and services related to the sphere of logistics [P6S_WK_10]

Skills

is able to identify changes in requirements, standards, regulations, technical progress and the reality of the labor market, and based on them determine the needs of supplementing knowledge [P6S_UU_01]

Social competences

is aware of the responsible fulfillment, correct identification and resolution of dilemmas related to the logistics profession [P6S_KR_01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge gained during lectures is verified by an exam (in oral form). Passing threshold: 50% of points. Exam issues are made available to students by e-mail using the university e-mail system.

Skills acquired during laboratory classes are verified on the basis of laboratory tasks (carried out using specialized software). Passing threshold: 50% of points.

Skills acquired during project classes are verified on the basis of project tasks (implemented in teams). Passing threshold: 50% of points.

Programme content

Lecture: The essence of production and service management. Classification of processes in an enterprise, an organized process. Parameters and norms of production management, space modeling the manufacturing process, control planes. Product (product or service), product range, construction and production series, production program, production pace and cycle. Product manufacturing cycle. Production capacity, load balancing with production capacity. Production capacity management, scheduling, production flow analysis. Basics of production control and services. Product structure - Bill of

material and resource structure - Bill of resources. Basics of congestion theory, congestion management in service processes. Resource scheduling in service processes.

Laboratory: Production management parameters and norms. Product (product or service), product range, construction and production series, production program, production pace and cycle. Product manufacturing cycle. Production capacity, load balancing with production capacity. Production capacity management, scheduling, production flow analysis. Product structure - Bill of material and resource structure - Bill of resources. Resource scheduling in service processes. Fundamentals of production planning and control.

Project: Product (product or service), production range, program, production pace and cycle. Product production cycle. Production inventory. Production capacity, load balancing with production capacity.

Teaching methods

Lecture: informative lecture (conventional) - information transfer in a systematic way, supported by multimedia presentation, illustrated with examples and tasks, and case method (case study) - analysis of specific cases of illustrative (illustrative) or problem (identifying problems) character.

Laboratory: laboratory method (experiment) - independent conducting of experiments by students using specialized software.

Project: project method - individual or team implementation of a large, multi-stage cognitive or practical task, which results in the creation of a work.

Bibliography

Basic

Pająk E., Klimkiewicz M., Kosieradzka A., Zarządzanie produkcją i usługami, PWE, Warszawa 2014.
Brzeziński M. (red.), Organizacja i sterowanie produkcją, AW Placet, Warszawa, 2002.
Mazurczak J., Projektowanie struktur systemów produkcyjnych, WPP, Poznań, 2001.
Boszko J., Struktura organizacyjna przedsiębiorstwa i drogi jej optymalizacji, WNT, Warszawa 1973.

Additional

Muhlemann A., Oakland J., Lockyer K., Zarządzanie. Produkcja i usługi, PWN , Warszawa, 2001.
Pająk E., Zarządzania produkcją, Wydawnictwo Naukowe PWN, Warszawa 2017.
Wróblewski K., Podstawy sterowania przepływem produkcji, WNT, Warszawa 1993.
Senger Z., Sterowanie przepływem produkcji, WPP, Poznań, 1998.
Ragin-Skorecka K., Grzelczak A., Motała D., Podstawy zarządzania nie tylko dla logistyków, Wydawnictwo WSB, Poznań 2017.

Breakdown of average student's workload

	Hours	ECTS
Total workload	150	6,0
Classes requiring direct contact with the teacher	42	2,0
Student's own work (literature studies, preparation for laboratory and project classes, preparation for the exam, preparation of the project) [1]	108	4,0

[1] delete or add other activities as appropriate