



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Production flow control [S1ZiIP2>SPP]

Course

Field of study

Management and Production Engineering

Year/Semester

3/6

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

15

Other

0

Tutorials

0

Projects/seminars

0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

The student has basic knowledge of production planning and control. The student can logically associate facts and use information obtained from available sources of knowledge. The student understands the need to acquire new knowledge.

Course objective

Learning theoretical and practical issues related to production flow control.

Course-related learning outcomes

Knowledge:

Knows production planning methods.

Knows production control functions.

Knows production control methods in various approaches to the organization of production systems.

Skills:

Can design the flow of materials for a given form of production organization.

Can plan the material requirements for individual positions.

Social competences:

Understands the importance of production organization for the functioning of the enterprise.

Can independently develop knowledge in the subject.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Verification of knowledge based on a colloquium consisting of 5 general questions conducted at the end of the semester. Pass threshold: 50%.

Assignment of grades to percentage ranges of results: <90-100> very good; <80-90) good plus; <70-80) good; <60-70) satisfactory plus; <50-60) satisfactory; <0-50) unsatisfactory.

Programme content

The concept of production control. Types and forms of production organization. Information in the control system. Types of production plans. Control of production resources. Scheduling methods. Contemporary methods of production control.

Course topics

Lecture

The concept of production control. Types and forms of production organization. Information in the control system. Types of production plans. Control of production resources. Scheduling methods.

Control of material flow. Modern methods of production control.

Laboratories

Determination of basic parameters characterizing production flow. Calculations of inventories in the manufacturing process. Production scheduling methods. Control of production flow according to the pull system and using the drum-buffer-rope tool.

Teaching methods

Lecture: multimedia presentation enriched with film material, case study, and crossword.

Laboratories: practical exercises on computers, discussion, workshops.

Bibliography

Basic:

1. Organizacja i sterowanie, Marek Brzeziński, AW Placet, Warszawa, 2002

2. Zarządzanie produkcją. Produkt, technologia, organizacja, Edward Pająk, PWN, Warszawa, 2006

Additional:

1. Inżynieria zarządzania, Ireneusz Durlik, AW Placet, Warszawa, 1993

2. Cel I: Doskonałość w produkcji, Eliyahu M. Goldratt, MINT Books, Warszawa 2017

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00