



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Production systems in practice [S1ZiIP2>SPwP]

Course

Field of study

Management and Production Engineering

Year/Semester

2/3

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

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

15

Number of credit points

1,00

Coordinators

dr inż. Justyna Trojanowska

justyna.trojanowska@put.poznan.pl

Lecturers

Prerequisites

Possesses basic knowledge in the field of production engineering, management of a production enterprise, organization of the production system, and use of e-resources.

Course objective

The course aims to familiarize students with the principles of operation of manufacturing enterprises and real production systems (taking into account various types and forms of production organization).

Course-related learning outcomes

Knowledge:

Knows of the functioning of production systems.

Knows the organization of production.

Knows the principles of organizing the flow of materials and information in production processes.

Skills:

Can propose a form of production organization for a defined production process.

Can discuss the effectiveness of the organization of production systems.

Can define the elements of a production system.

Social competences:

Is aware of the responsibility for decisions made and their impact on the functioning of the production system.

Is aware of the importance of proper communication between elements of the production system.

Is aware of the diversity of production systems.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Report on the classes (according to the template prepared by the tutor).

Programme content

Organizational structure in a manufacturing enterprise. Analysis of material flow in the production process. Organization of the workstation. Information flow in the production system. Management of the production team.

Course topics

Organizational structure in a manufacturing enterprise on selected examples. Analysis of material flow in the production process (taking into account different types of production). Organization of the workstation (on the production floor). The flow of information in the production system (transferring and reporting tasks). Management of the production team (at medium and low management levels).

Teaching methods

Study visit, debate, and multimedia presentation, including the use of distance learning techniques and e-resources.

Bibliography

Basic:

Pająk E.: Zarządzanie produkcją, Wydawnictwo Naukowe PWN, Warszawa 2021

Hamrol A.: Strategie i praktyki sprawnego działania, Wydawnictwo Naukowe PWN, Warszawa 2018

Kłos S., Jardzioch A., Kalinowski K.: Organizacja i planowanie produkcji, PWE, 2023

Additional:

Knosala R.: Inżynieria Produkcji, Polskie Wydawnictwo Ekonomiczne, Warszawa 2017

Kłos S., Jardzioch A., Kalinowski K.: Organizacja i planowanie produkcji, Polskie Wydawnictwo Ekonomiczne, 2023

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50