



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passing project

Course

Field of study

Management and Production Engineering

Area of study (specialization)

Production systems

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

Krzysztof Żywicki, Ph.D.

Responsible for the course/lecturer:

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Faculty of Mechanical Engineering

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Prerequisites

The student has basic knowledge in the field of production management and is able to logically



associate facts, use information obtained from available sources of knowledge. Understanding the need for learning and acquiring new knowledge

Course objective

Combining the knowledge and skills acquired by students in the current course of study with the procedure associated with starting production.

Course-related learning outcomes

Knowledge

The student knows the characteristics of the system and production process.

The student knows the elements of the production system (production structure, types of cell production)

The student knows the basic forms of organization of production

The student knows the methods of production control in different terms, the organization of production systems

Skills

The student knows how to design the flow of materials (production) in the production processes

The student is able to propose the form and structure of the organization of production for the various types of production

The student knows how to take into account internal and external factors affecting the adoption of specific production capacity

The student can design elements of the production structure (form type) and management of production space (system of production cells)

Social competences

Understands the importance of organizing production for the enterprise

Can independently develop knowledge on the

Understands the importance of computerization of production for the enterprise

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Project: credit on the basis of the project made.

Programme content

Project:



The project is to design a production system for certain inputs. associated with product assortment and demand for products, technological processes, production resources. The project involves the selection of productive resources, the adoption of the type and form of organization of production, project management and production space control system production flow (flow of materials and information).

Teaching methods

Project: solving practical problems, searching for sources, teamwork, discussion.

Bibliography

Basic

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

Lewandowski Jerzy, Skołod Bożena, Plinta Dariusz, Organizacja systemów produkcyjnych, PWE, Warszawa 2014r.

Mazurczak Jerzy, Projektowanie struktur systemów produkcyjnych, Politechnika Poznańska, Poznań, 2002.

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

Waters Donald, Zarządzanie operacyjne, PWN, 2019

Banaszak Z., Kłos S., Mleczek J., Zintegrowane systemy zarządzania, PWE, Warszawa 2011r

Senger Zbigniew, Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, 1998r.

Additional

Inżynieria zarządzania, Ireneusz Durlak, AW Placet, Warszawa, 1993

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	75	3,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	50	2,0

¹ delete or add other activities as appropriate