



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Production Planning and Control

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### Course

Field of study

Logistics

Area of study (specialization)

Corporate Logistics

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

polish

Requirements

elective

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### Number of hours

Lecture

30

Tutorials

Laboratory classes

Projects/seminars

30

Other (e.g. online)

### Number of credit points

5

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### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Łukasz Hadaś, prof. PP

email: lukasz.hadas@put.poznan.pl

tel. 616653401

Wydział Inżynierii Zarządzania

ul. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

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### Prerequisites

The student knows the basic concepts of production management. The student has the ability to



perceive, associate and interpret phenomena occurring in the sphere of management. The student is responsible, is able to interact and actively work in a team.

### Course objective

The aim of the course is to familiarize students with the basic issues of production planning and control, presentation of the production planning and control system.

### Course-related learning outcomes

#### Knowledge

1. Student knows the typical structure of production planning at the level of finished products and components - [P7S\_WG\_01]
2. The student knows the concepts of the Main Production Schedule (GHP), the principles of its creation and role in the production planning system - [P7S\_WG\_02]
5. The student knows the basic principles and methods of controlling the flow of material streams - [P7S\_WK\_01]

#### Skills

1. The student has the ability to present information on a specific problem in the area of production planning and control - [P7S\_UW\_01]
2. Student is able to design a production planning system for given organizational conditions - [P7S\_UW\_05]
3. Student is able to design the index analysis process for assessing the proposed production planning system - [P7S\_UK\_01]

#### Social competences

1. The student is aware of the responsibility for their own work and readiness to comply with the rules of teamwork and taking responsibility in the project group - [P7S\_KR\_01]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formulating assessment:

- a) In terms of the project: based on the progress of the project stages and knowledge of the issues necessary for its implementation
- b) in the scope of the lecture: based on answers to questions about issues discussed in previous lectures

Summative rating:

- a) In terms of the project: based on (1) the substantive quality of the completed project (2) defense of the completed project



b) in the scope of the lecture: based on an exam - a written essay on the issues discussed in the lecture. The lecture is passed after giving substantively correct answers to most of the issues raised

### Programme content

lectures:

Discussion of a typical planning structure in a production company. Production planning decisions at level; strategic, tactical and operational. Production planning decisions at the level of finished products, components and operations. Creation and types of the Main Production Schedule (GHP). Assortment and quantity plan. Planning "forward" and "backward". MRPII model. The essence of production control and control principles.

Project: Design of the production planning system for specific production and organizational conditions, including planning at the level of finished products, components and index analysis of the production process.

### Teaching methods

Lecture: Information lecture, problem lecture

Project: project method

### Bibliography

Basic

1. Hadaś Ł., Fertsch M., Cyplik P., Planowanie i sterowanie produkcją, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012

3. Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2003

4. Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002.

Additional

1. Liker J. K., Droga Toyoty. 14 zasad zarządzania wiodącej firmy produkcyjnej świata, MT Biznes, Warszawa 2005

2. Senger Z., Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, Poznań, 1998

3. Goldratt E., Cox J., Cel. Doskonałość w produkcji, WERBEL, Warszawa 2000



### Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	65	3,0
Student's own work (literature studies, preparation for classes, written preparation of the project, preparation for colloquium) ) <sup>1</sup>	60	2,0

<sup>1</sup> delete or add other activities as appropriate