



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

### Course

Field of study

Management and Production Engineering

Area of study (specialization)

Production enterprise logistics

Level of study

Second-cycle studies

Form of study

part-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

8

### Number of credit points

4

### Lecturers

Responsible for the course/lecturer:

prof. Stanisław Legutko

Responsible for the course/lecturer:

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Faculty of Mechanical Engineering

Piotrowo 3 60-965 Poznań

### Prerequisites

Knowledge: the student knows the basic manufacturing techniques and has knowledge of production management at the level of the second cycle of studies

Skills: the student is able to: characterize the production processes, determine the cost associated with their implementation. He knows how to use production control methods, knows how to use basic IT tools in the area of production management

Social competences: can work in a team, sees the need for continuous training.

### Course objective

acquiring the practical ability to apply the knowledge gained during studies to develop a master's thesis



(characterizing the substantive area, formulating the aim of the work and its scope). Generating theses topics, choose the promoters. Defining by students (together with the supervisor during consultations) detailed tasks to be performed.

### Course-related learning outcomes

#### Knowledge

1. has knowledge of the principles of writing studies, text editing
2. has knowledge of formal principles of developing own research
3. knows the basic methods and techniques for solving tasks

#### Skills

1. can plan and carry out experiments, computer simulations, interpret the obtained results and draw conclusions
2. is able to make conclusions at the stage of topic analysis, select methods and means to perform tasks
3. can prepare a well-documented technical study in Polish and English and deliver a presentation

#### Social competences

1. understands the need for lifelong learning; can inspire and organize the learning process of other people
2. is able to define priorities for the implementation of a specific task
3. is able to interact and work in a group

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit on the basis of the presentation of issues related to education in the field of Management and Production Engineering and the presentation of the master's thesis in the field of: goals, methods of solving the given problem and schedule.

### Programme content

Characteristics of master's theses (design, technology, production organization, research, review, theoretical). Discussion on sample master's theses (goals, scope, volume, literature). Differences between master's and engineering theses. The structure of the thesis. Editorial requirements. Characterization of the substantive area, formulation of the purpose of the work and its scope. Selection of literature for the scope of work. Selection and presentation of the work methodology: inference at the stage of topic analysis, selection of methods and means to be performed by experience, modeling, statistical analysis of results, measures of variability, statistical verification of hypotheses, final conclusions with innovative, practical or theoretical emphasis. Review of knowledge acquired during studies (presentations prepared by students). Choosing a promoter, determining the subject and area of the thesis.



## Teaching methods

Multimedia presentations with commentary, panel discussion, ongoing individual consultations

## Bibliography

### Basic

Individually selected for the topic

Thesis recommendations developed by the teacher, the sheet of the most common mistakes when editing the diploma thesis prepared by the teacher

Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej Wyd. DIFIN Warszawa 2010

Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych Wyd. Politechniki Śląskiej Gliwice 2001

### Additional

Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa, 2001.

Materials of specialized scientific conferences

Selected literature items compatible with the topics of the diploma theses

## Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, data collection and processing), preparation of the presentation of a given topic <sup>1</sup>	70	3,0

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