



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Thesis - engineering project

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### Course

Field of study

Logistics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

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### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

14

### Number of credit points

2

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### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Łukasz Hadaś, prof. PP

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Wydział Inżynierii Zarządzania

ul. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

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### Prerequisites

Knowledge of subjects covered by the education program of the first-cycle studies in Logistics. Skills in



analyzing issues related to the field of study. Competences in establishing contacts with enterprises, collecting and analyzing information needed to complete the thesis and ability of managing own time.

### Course objective

The aim of the course is to use the knowledge and skills acquired during studies to analyze selected logistic processes or subsystems or issues directly related to them, and to propose necessary changes. Preparation of thesis (engineering project).

### Course-related learning outcomes

#### Knowledge

1. The student knows the basic management issues specific to aspects covered in the thesis - [P6S\_WG\_08]
2. The student knows the basic methods, techniques and tools in preparation for conducting scientific research and solving simple engineering tasks in the field covered by the subject of the thesis - [P6S\_WK\_07]
3. The student knows the basic methods, techniques and tools in preparation for conducting scientific research and solving simple engineering tasks in the field covered by the subject of the thesis - [P6S\_WK\_07]

#### Skills

1. The student is able to properly choose the sources and information from them in order to make their critical analysis and synthesis for the purposes of the thesis [P6S\_UW\_01]
2. Student is able to present the problem included in the thesis by means of properly selected means - [P6S\_UK\_01]
3. Student is able to identify and formulate a practical (engineering) task in the field of diploma thesis - [P6S\_UO\_01]

#### Social competences

1. The student is able to see the cause-and-effect relationships in achieving the objectives of the thesis and rank the importance of alternative or competitive tasks - [P6S\_KK\_01]
2. The student is aware of the importance of knowledge in solving problems posed in the diploma thesis - [P6S\_KK\_02]
3. The student is aware of the responsibility for their own work for the thesis and readiness to comply with the principles of teamwork and taking responsibility for jointly implemented tasks [P6S\_KR\_02]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment: based on current progress in the area of: formulation of a research problem and work goals, selection and justification of research methods, selection of literature as well as their presentation and discussion.



Summative assessment: based on a written report (containing, among others: justification for the choice of topic, purpose and scope of work, research methods and tools, course of the research process, expected results, table of contents, literature).

### Programme content

Basic principles for the construction of the diploma thesis (summary, introduction, justification of the topic selection, purpose and scope of the thesis, literature review, practical and research part, real data of the studied enterprise, suggestions for solving the problem and summary). Characteristics of the work structure, division of the text into chapters, subchapters, etc. Requirements for technical preparation and editing of the work.

The correct way to refer to literature sources in the text, descriptions of drawings and tables. Rules for creating a list of literature. Development of the thematic card of the diploma thesis.

The importance of clearly setting and justifying the research problem, purpose and scope of work. Research methods and tools, research process. The essence of the interpretation of the results obtained in the context of the research questions posed.

Basic rules for preparing for the defense of the thesis. The course of the diploma exam.

### Teaching methods

Lecture, talk, explanation, seminar, work with a book and journal, presentation.

### Bibliography

#### Basic

1. Regulamin realizacji prac dyplomowych - [www.fem.put.poznan.pl](http://www.fem.put.poznan.pl)
2. Majchrzak J., Mendel T., *Metodyka pisania prac magisterskich i dyplomowych: poradnik pisania prac promocyjnych oraz innych opracowań naukowych wraz z przygotowaniem ich do obrony lub publikacji*, Wydawnictwo Uniwersytetu Ekonomicznego, Poznań 2009.
3. Rozpondek M., Wyciślik A., *Seminarium dyplomowe: praca dyplomowa magisterska i inżynierska : pierwsza praca - know how*, Wydawnictwo Politechniki Śląskiej, Gliwice 2007.

#### Additional

1. Dudziak A., Żejmo A., *Redagowanie prac dyplomowych: wskazówki metodyczne dla studentów*, Centrum Doradztwa i Informacji Difin, Warszawa 2008.
2. Sources selected according to the issues of the diploma thesis.



### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for the seminar, preparation of the presentation) <sup>1</sup>	25	1,0

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