



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Master's Thesis

Course

Field of study

Engineering Management

Area of study (specialization)

Managing Enterprise of the Future

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

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

120

Number of credit points

10

Lecturers

Responsible for the course/lecturer:

Prof. Stefan Trzcielinski, Ph.D. Eng.

Responsible for the course/lecturer:

Prerequisites

Knowledge from subjects covered by the education standards at second-cycle studies in the field of Management Engineering. Skills acquired during the study of subjects covered by the education standards at second-cycle studies in the field of Management Engineering. Social competencies gained during the study of subjects covered by the education standards at second-cycle studies in the field of Management Engineering.



Course objective

The objective of the course is to valorize the knowledge acquired during the studies to conduct an analysis of an organization/company and to design the necessary changes in its structures as well as in the management of its resources and processes.

Course-related learning outcomes

Knowledge

1. The student defines and describes methodologies for analyzing subject literature and methods for analyzing external and internal conditions of an organization/company's operation [P7S_WG_03].
2. The student names and identifies existing solutions in the organization/company regarding the addressed problem [P7S_WG_04].
3. The student describes and characterizes the process of conducting empirical research [P7S_WG_07].
4. The student explains ethical norms and their significance for organizations [P7S_WK_01].
5. The student names and classifies issues related to the protection of industrial property and copyright [P7S_WK_02].

Skills

1. The student prepares a master's thesis project, including literature analysis, condition analysis, empirical study, diagnosis of malfunctions, and a concept for solving the problem [P7S_UW_03].
2. The student independently proposes solutions to specific managerial problems and makes decisions based on conducted analyses [P7S_UW_04].
3. The student analyzes the causes and course of social processes, formulates research hypotheses, and verifies them [P7S_UW_07].
4. The student prepares written works and oral presentations in Polish and a foreign language on management and management engineering [P7S_UK_01, P7S_UK_02].
5. The student is capable of effectively presenting the results of the master's thesis, demonstrating the ability to convey essential information about literature analysis, condition analysis, empirical study, diagnosis of malfunctions, and a concept for solving the problem [P7S_UK_02].
6. The student demonstrates the ability to collaborate and communicate with other members of the research team during empirical research and the development of the master's thesis project based on analysis results [P7S_UO_01].

Social competences

1. The student is aware of the interdisciplinarity of knowledge and skills needed to solve complex organizational problems and to create interdisciplinary teams [P7S_KK_01].
2. The student recognizes causal relationships in achieving goals and prioritizes the importance of tasks [P7S_KK_02].



3. The student considers ethical issues related to conducting empirical research and exhibits behavior consistent with professional ethics in the context of working on the master's thesis [P7S_KR_01].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative Assessment:

- Ongoing assessment of the progress of research conducted in connection with the preparation of the master's thesis.

Summative Assessment:

- Evaluation of the submitted master's thesis.

Programme content

Analysis of subject literature. Analysis of external and internal conditions of an organization/company's operation. Analysis of the existing solution in the organization/company regarding the addressed problem. Conducting empirical research. Diagnosis of malfunctions. Concept and design of a solution to the problem.

Teaching methods

Independent study of literature; case analysis; project method; consultations in the field of ongoing projects;

Bibliography

Basic

Regulations for the implementation of diploma theses - www.fem.put.poznan.pl

Relevant literature for the master's thesis topic:

Additional

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



Breakdown of average student's workload

	Hours	ECTS
Total workload	250	10,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	225	9,0

¹ delete or add other activities as appropriate