

# Diploma Thesis - course description

General information	
Course name	Diploma Thesis
Course ID	06.9-WM-MaPE-QE-P-DT- 23
Faculty	<a href="#">Faculty of Mechanical Engineering</a>
Field of study	Management and Production Engineering
Education profile	academic
Level of studies	First-cycle studies leading to Engineer's degree
Beginning semester	winter term 2023/2024

Course information	
Semester	7
ECTS credits to win	15
Available in specialities	Quality Engineering
Course type	obligatory
Teaching language	english
Author of syllabus	<ul style="list-style-type: none"><li>dr hab. inż. Sławomir Kłos, prof. UZ</li></ul>

Classes forms					
The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Project	0	0	-	-	Credit

## Aim of the course

The aim of the course is to deepen the knowledge and skills of research tools and methods related to the chosen field of study and specialization through self-study, and to write a diploma thesis.

## Prerequisites

Seminar I-III.

## Scope

Development of an engineering thesis according to the diploma thesis card. The work consists of theoretical issues (review of scientific and technical literature) and own work (presentation of research methodology, research results, development of product design, product production technology, production automation issues, machine operation technology, etc.). A presentation of the work should be prepared for the defence.

## Teaching methods

Working with a book, source data, catalogs, standards, on the Internet. Independent or team work in laboratories and computer rooms. Discussions during meetings with the promoter.

## Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
The student is able to propose improvements to existing technical solutions; is able to assess the usefulness of routine methods and techniques related to the field of production management and process improvements.	<ul style="list-style-type: none"><li><a href="#">K_U26</a></li></ul>	<ul style="list-style-type: none"><li>a written assignment</li></ul>	<ul style="list-style-type: none"><li>Project</li></ul>
The student is able to design a manufacturing/service system and select methods for managing process flows, design workstations and make a critical analysis of the functioning of the proposed solutions.	<ul style="list-style-type: none"><li><a href="#">K_U21</a></li></ul>	<ul style="list-style-type: none"><li>a written assignment</li></ul>	<ul style="list-style-type: none"><li>Project</li></ul>
The student has self-learning skills, e.g. in order to improve qualifications and professional competences using library sources and resources, electronic sources and databases.	<ul style="list-style-type: none"><li><a href="#">K_U07</a></li></ul>	<ul style="list-style-type: none"><li>a written assignment</li></ul>	<ul style="list-style-type: none"><li>Project</li></ul>
The student is able to obtain information from literature, databases and other sources, integrate them, interpret them, and draw conclusions and formulate opinions.	<ul style="list-style-type: none"><li><a href="#">K_U01</a></li></ul>	<ul style="list-style-type: none"><li>a written assignment</li></ul>	<ul style="list-style-type: none"><li>Project</li></ul>
The student is able to plan and carry out experiments, including simulations, in the field of mechanical engineering and methods of managing its processes, and to interpret the results and draw conclusions.	<ul style="list-style-type: none"><li><a href="#">K_U19</a></li></ul>	<ul style="list-style-type: none"><li>a written assignment</li></ul>	<ul style="list-style-type: none"><li>Project</li></ul>

## Assignment conditions

Passing condition for the thesis is acceptance of the thesis by the promoter.

## Recommended reading

1. Literature in the areas of general technical and specialist subjects.

## Further reading

## Notes

Modified by dr inż. Tomasz Belica (last modification: 10-05-2023 20:01)

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