

## Course description

<b>Course abbreviation:</b>	KMM/SPM	<b>Page:</b>	1 / 3
<b>Course name:</b>	Semester Project		
<b>Academic Year:</b>	2023/2024	<b>Printed:</b>	08.07.2025 08:28

<b>Department/Unit /</b>	KMM / SPM			<b>Academic Year</b>	2023/2024
<b>Title</b>	Semester Project			<b>Type of completion</b>	Pre-Exam Credit
<b>Accredited/Credits</b>	Yes, 4 Cred.			<b>Type of completion</b>	
<b>Number of hours</b>	Tutorial 4 [Hours/Week]				
<b>Occ/max</b>	Status A	Status B	Status C	<b>Course credit prior to</b>	No
<b>Summer semester</b>	0 / -	0 / -	0 / -	<b>Counted into average</b>	NO
<b>Winter semester</b>	19 / -	0 / -	1 / -	<b>Min. (B+C) students</b>	10
<b>Timetable</b>	Yes			<b>Repeated registration</b>	NO
<b>Language of instruction</b>	Czech, English			<b>Semester taught</b>	Winter semester
<b>Optional course</b>	Yes			<b>Internship duration</b>	0
<b>Evaluation scale</b>	S\N				
<b>No. of hours of on-premise</b>					
<b>Auto acc. of credit</b>	Yes in the case of a previous evaluation 4 nebo nic.				
<b>Periodicity</b>	every year				
<b>Specification periodicity</b>					
<b>Substituted course</b>	None				
<b>Preclusive courses</b>	N/A				
<b>Prerequisite courses</b>	N/A				
<b>Informally recommended courses</b>	N/A				
<b>Courses depending on this Course</b>	N/A				

### Course objectives:

The semester project gives students an opportunity to use the theoretical knowledge, gained through their studies, in the solution of specific problems. It consists of the following parts:  
analysis of the state of the art in the given area, presentation of possible solutions and detailed description of the chosen one.

### Requirements on student

Handing over the term's project according to required requirements and committal results dependence.

### Content

Student supervised by diploma project leader works on diploma project. The subject is based on individual consultation provided to student by diploma project leader.

### Fields of study

COURSEWARE ZČU

### Guarantors and lecturers

- **Guarantors:** prof. Ing. Ludmila Kučerová, Ph.D. (100%)
- **Tutorial lecturer:** prof. Ing. Ludmila Kučerová, Ph.D. (100%)

### Literature

- **Basic:** Staněk, Jiří; Němejce, Jiří. *Metodika zpracování a úprava diplomových (bakalářských) prací*. Plzeň, 2005. ISBN 80-7043-363-9.

- **Recommended:** *Doporučená literatura k semestrálnímu projektu navazuje na doporučenou literaturu diplomové práce. Její rozsah je nutné dohodnout s vedoucím DP..*

## Time requirements

### All forms of study

Activities	Time requirements for activity [h]
Contact hours	52
Graduate study programme term essay (40-50)	50
Presentation preparation (report) (1-10)	10
<b>Total:</b>	<b>112</b>

## assessment methods

### Knowledge - knowledge achieved by taking this course are verified by the following means:

Skills demonstration during practicum  
Individual presentation at a seminar

### Skills - skills achieved by taking this course are verified by the following means:

Skills demonstration during practicum

### Competences - competence achieved by taking this course are verified by the following means:

Defense of thesis

## prerequisite

### Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

Complete engineering courses in the curriculum for the first year of master's study programme.  
Give a description of and explain theoretical knowledge and practical skills acquired in the chosen field.  
Describe the state of the art in the field.  
Characterize working hypotheses, methods and techniques required for solving the assigned problem.  
Give a description and higher-level explanation of alternative solutions.  
Expand own knowledge through independent study of theoretical fundamentals of engineering.

### Skills - students are expected to possess the following skills before the course commences to finish it successfully:

Use own knowledge in your chosen field for solving specific problems.  
Conduct an analysis of state of the art in the field.  
Design new solutions to the assigned problem.  
Develop own opinion of the alternative solutions and choose the optimal one (analyze the technical solution)  
Gain further professional skills independently through hands-on experience and its evaluation.

### Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

## teaching methods

### Knowledge - the following training methods are used to achieve the required knowledge:

One-to-One tutorial

### Skills - the following training methods are used to achieve the required skills:

Project-based instruction

### Competences - the following training methods are used to achieve the required competences:

Individual study

## learning outcomes

### Knowledge - knowledge resulting from the course:

After completing this course, the student will be able to: - select and solve assigned or chosen problems independently -

analyze acquired materials using relevant theoretical background - identifying appropriate theories and apply them to the problem - identify an appropriate method of solving the problem - speak to professional public.

#### Skills - skills resulting from the course:

Give a comprehensive description and elaborate explanation of potential solutions to basic technical problems.  
 Give a comprehensible and convincing presentation of information on professional problems to the public  
 Give an independent evaluation of a problem and present own opinion of the solution  
 Present professional knowledge in at least one foreign language.  
 Expand own knowledge through independent study of theoretical fundamentals of the field.

#### Competences - competences resulting from the course:

N/A

#### Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Materials Science and Manufacturing Technology	Postgraduate Master	Full-time	Materials Science and Manufacturing Technology	1	2020	2023	Compulsory courses	A	2	ZS
Materials Science and Manufacturing Technology	Postgraduate Master	Combined	Materials Science and Manufacturing Technology	1	2020	2023	Compulsory courses	A	2	ZS