

Course description

Course abbreviation:	KMM/SPM	Page:	1 / 3
Course name:	Semester Project		
Academic Year:	2023/2024	Printed:	03.06.2024 07:05

Department/Unit /	KMM / SPM			Academic Year	2023/2024
Title	Semester Project			Type of completion	Pre-Exam Credit
Accredited/Credits	Yes, 4 Cred.			Type of completion	
Number of hours	Tutorial 4 [Hours/Week]				
Occ/max	Status A	Status B	Status C	Course credit prior to	NO
Summer semester	0 / -	0 / -	0 / -	Counted into average	NO
Winter semester	19 / -	0 / -	1 / -	Min. (B+C) students	10
Timetable	Yes			Repeated registration	NO
Language of instruction	Czech, English			Semester taught	Winter semester
Optional course	Yes			Internship duration	0
Evaluation scale	S N				
No. of hours of on-premise					
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.				
Periodicity	K				
Substituted course	None				
Preclusive courses	N/A				
Prerequisite courses	N/A				
Informally recommended courses	N/A				
Courses depending on this Course	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 commitional 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
Total:	112

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